		nCounter	r® Human AD Panel - Gene and Probe Details	
Official Symbol	Accession	Alias / Previous Symbol	Official Full Name	Other targets or Isoform Information
ABCA2	NM_000014.4 NM_001606.4	ABC2;ATP-binding cassette, sub-family A (ABC1), member 2	alpha-2-macroglobulin ATP binding cassette subfamily A member 2	
BCA8	NM_007168.2	ATP-binding cassette, sub-family A (ABC1), member 8	ATP binding cassette subfamily A member 8	
BLIM2 CAA2		actin binding LIM protein 2,actin binding LIM protein family, member 2 acetyl-Coenzyme A acyltransferase 2	actin binding LIM protein family member 2 acetyl-CoA acyltransferase 2	
CADSB	NM_001609.3	acyl-Coenzyme A dehydrogenase, short/branched chain	acyl-CoA dehydrogenase short/branched chain	
OT7	NM_007274.3	and above have a solid live	acyl-CoA thioesterase 7	
CP1 CP2	NM_001040649.2 NM 001131064.1	acid phosphatase 1, soluble	acid phosphatase 1 acid phosphatase 2, lysosomal	
CSL5		FACL5;fatty-acid-Coenzyme A ligase, long-chain 5	acyl-CoA synthetase long chain family member 5	
CTR3B	NINA 00104013E 1	ADD2 active related eventsin 2 houseless D (reset) ADD2 active related eventsin 2 houseless D	astin related avetain 30	ACTR3C (NM_001164458;NM_001164459)
CTR6	NM_001040135.1 NM 022496.4	ARP3 actin-related protein 3 homolog B (yeast),ARP3 actin related protein 3 homolog B ARP6 actin-related protein 6 homolog (yeast),ARP6 actin related protein 6 homolog	actin related protein 38 actin related protein 6	ACTR3C (NM_001164458;NM_001164459)
CVRL1	NM_000020.1	ACVRLK1,ORW2;activin A receptor type II-like 1,activin A receptor type IL	activin A receptor like type 1	
DD2 DD3	NM_001185055.1 NM 001121.2	adducin 2 (beta) ADDL;adducin 3 (gamma)	adducin 2 adducin 3	
DHFE1	NM_144650.2	ADDE, GOOGLES S (Bassing)	alcohol dehydrogenase iron containing 1	
DIPOR2	NM_024551.2	400043	adiponectin receptor 2	
DORAZA DPGK	NM_000675.3 NR 023318.1	ADORAZ	adenosine A2a receptor ADP dependent glucokinase	
DPRH	NM_001125.2		ADP-ribosylarginine hydrolase	
		PBM1,MLLT2;myeloid/lymphoid or mixed-lineage leukemia (trithorax (Drosophila) homolog); translocated to, 2,pre-B-cell monocytic leukemia partner 1,AF4/FMR2 family,		
FF1	NM_001166693.1		AF4/FMR2 family member 1	
GBL4	NM_032785.3		ATP/GTP binding protein like 4	
GL HNAK	NM_000028.2	amylo-1, 6-glucosidase, 4-alpha-glucanotransferase AHNAK nucleoprotein (desmoyokin)	amylo-alpha-1, 6-glucosidase, 4-alpha-glucanotransferase AHNAK nucleoprotein	
		C14orf3;chromosome 14 open reading frame 3,AHA1, activator of heat shock 90kDa		
HSA1		protein ATPase homolog 1 (yeast)	activator of HSP90 ATPase activity 1	
LCAM LDH2	NM_001627.3 NM 000690.2	activated leucocyte cell adhesion molecule aldehyde dehydrogenase 2 family (mitochondrial)	activated leukocyte cell adhesion molecule aldehyde dehydrogenase 2 family member	
LDH6A1	NM_001278593.1	MMSDH;aldehyde dehydrogenase 6 family, member A1	aldehyde dehydrogenase 6 family member A1	
LDH7A1 LDH9A1		ATQ1;aldehyde dehydrogenase 7 family, member A1 ALDH7.ALDH4.ALDH9;aldehyde dehydrogenase 9 family, member A1	aldehyde dehydrogenase 7 family member A1 aldehyde dehydrogenase 9 family member A1	
.5.13/11	vi_000090.5	asparagine-linked glycosylation 2 homolog (yeast, alpha-1,3-		
163	NIM CORRES	mannosyltransferase),asparagine-linked glycosylation 2, alpha-1,3-mannosyltransferase	ALCO alpha 1.3/1.C managed by the second	
LG2 MER2		homolog (S. cerevisiae) FAM123A;family with sequence similarity 123A	ALG2 alpha-1,3/1,6-mannosyltransferase APC membrane recruitment protein 2	
MER3	NM_001105193.1	FAM123C;family with sequence similarity 123C	APC membrane recruitment protein 3	
мот	NM_133265.2		angiomotin	
		amphiphysin (Stiff-Mann syndrome with breast cancer 128kD autoantigen),amphiphysin		
MPH		(Stiff-Man syndrome with breast cancer 128kDa autoantigen)	amphiphysin	
NAPC11	NM_001002245.1	anaphase promoting complex subunit 11 (yeast APC11 homolog) anillin (Drosophila Scraps homolog), actin binding protein, anillin, actin binding protein	anaphase promoting complex subunit 11	
NLN		(scraps homolog, Drosophila)	anillin actin binding protein	
NO6		TMEM16F;transmembrane protein 16F	anoctamin 6 ANTXR cell adhesion molecule 1	
NTXR1 NXA2		anthrax toxin receptor 1 ANX2.ANX2L4.CAL1H.LPC2D	annexin A2	
NXA5	NM_001154.3	ENX2,ANX5	annexin A5	
P3B2	NM_001278511.1	adaptor related protein complex 3 beta 2 subunit	adaptor related protein complex 3 subunit beta 2	
PH1A	NM_001077628.1	anterior pharynx defective 1 homolog A (C. elegans), APH1A gamma secretase subunit	aph-1 homolog A, gamma-secretase subunit	
POE		AD2;Alzheimer disease 2 (APOE*E4-associated, late onset)	apolipoprotein E	
APP .	NM_000484.3	AD1;Alzheimer disease,amyloid beta (A4) precursor protein adaptor protein, phosphotyrosine interaction, PH domain and leucine zipper containing	amyloid beta precursor protein	
PPL2		2	adaptor protein, phosphotyrosine interacting with PH domain and leucine zipper 2	
RFGAP2 RHGAP1	NM_032389.4 NM_004308.2	ZNF289;zinc finger protein 289, ID1 regulated	ADP ribosylation factor GTPase activating protein 2 Rho GTPase activating protein 1	
RHGAP31	NM_020754.2		Rho GTPase activating protein 1	
RHGAP44	NM_014859.4		Rho GTPase activating protein 44	
ARHGAP5 ARHGDIB		GFI2;growth factor independent 2 RAP1GN1,GDIA2,GDID4;Rho GDP dissociation inhibitor (GDI) beta	Rho GTPase activating protein 5 Rho GDP dissociation inhibitor beta	
RHGEF26		Rho guanine nucleotide exchange factor (GEF) 26	Rho guanine nucleotide exchange factor 26	
		MRX46;mental retardation, X-linked 46,Rac/Cdc42 guanine nucleotide exchange factor		
RHGEF6 RHGEF9		(GEF) 6 Cdc42 guanine nucleotide exchange factor (GEF) 9	Rac/Cdc42 guanine nucleotide exchange factor 6 Cdc42 guanine nucleotide exchange factor 9	
RMCX5	NM_022838.3		armadillo repeat containing X-linked 5	
		actin related protein 2/3 complex, subunit 1B (41 kD),actin related protein 2/3 complex subunit 1B, 41kDa		
RPC1B TCAY		ataxia, cerebellar, Cayman type,ATCAY, caytaxin	actin related protein 2/3 complex subunit 1B ATCAY kinesin light chain interacting caytaxin	
TG14	NM_014924.3	KIAA0831;KIAA0831,ATG14 autophagy related 14 homolog (S. cerevisiae)	autophagy related 14	
		AUTL1,APG4C;AUT (S. cerevisiae)-like 1, cysteine endopeptidase; AUT-like 1, cysteine		
		endopeptidase (S. cerevisiae),APG4 autophagy 4 homolog C (S. cerevisiae),ATG4		
TG4C		autophagy related 4 homolog C (S. cerevisiae),autophagy related 4C, cysteine peptidase		
TL3 TP1A3	NM_015459.3 NM_152296.4	DYT12;dystonia 12,ATPase, Na+/K+ transporting, alpha 3 polypeptide	atlastin GTPase 3 ATPase Na+/K+ transporting subunit alpha 3	
TP2B1	NM_001682.2	ATPase, Ca++ transporting, plasma membrane 1	ATPase plasma membrane Ca2+ transporting 1	
TP2B2		ATPase, Ca++ transporting, plasma membrane 2 ATPSAL2,ATPM,ATPSA1;ATP synthase, H+ transporting, mitochondrial F1 complex,	ATPase plasma membrane Ca2+ transporting 2	
		alpha subunit, isoform 2, non-cardiac muscle-like 2,ATP synthase, H+ transporting,		
705544		mitochondrial F1 complex, alpha subunit, isoform 1, cardiac muscle,ATP synthase, H+	ATD continues [2] colonials alaba	
TP5F1A		transporting, mitochondrial F1 complex, alpha subunit 1, cardiac muscle ATP5J2;ATP synthase, H+ transporting, mitochondrial F0 complex, subunit f, isoform	ATP synthase F1 subunit alpha	
		2,ATP synthase, H+ transporting, mitochondrial F0 complex, subunit F2,ATP synthase,		
TPSME		H+ transporting, mitochondrial Fo complex, subunit F2,ATP synthase, H+ transporting, mitochondrial Fo complex subunit F2	ATP synthase membrane subunit f	
TP5MPL	NM_004894.2	C14orf2;chromosome 14 open reading frame 2	ATP synthase membrane subunit f ATP synthase membrane subunit 6.8PL	
		ATP5H;ATP synthase, H+ transporting, mitochondrial F0 complex, subunit d,ATP		
TP5PD		synthase, H+ transporting, mitochondrial Fo complex, subunit d,ATP synthase, H+ transporting, mitochondrial Fo complex subunit D	ATP synthase peripheral stalk subunit d	
		ATP6IP2;ATPase, H+ transporting, lysosomal interacting protein 2,ATPase, H+		
TP6AP2		transporting, lysosomal accessory protein 2 ATP6F;ATPase, H+ transporting, lysosomal (vacuolar proton pump) 21kD,ATPase, H+	ATPase H+ transporting accessory protein 2	
		transporting, lysosomal 21kDa, VO subunit c",ATPase, H+ transporting, lysosomal 21kDa,		
TP6V0B	NM_004047.3	V0 subunit b	ATPase H+ transporting V0 subunit b	
		ATP6D,ATP6C;ATPase, H+ transporting, lysosomal (vacuolar proton pump) 42kD,ATPase, H+ transporting, lysosomal 42kDa, V1 subunit C, isoform 1,ATPase, H+ transporting,		
TP6V1C1	NM_001695.4	lysosomal 42kDa, V1 subunit C1	ATPase H+ transporting V1 subunit C1	
TP6V1F	NM_001198909.1	ATPase, H+ transporting, lysosomal 14kDa, V1 subunit F	ATPase H+ transporting V1 subunit F	
		ATPase, aminophospholipid transporter-like, Class I, type 8A, member 2,ATPase, aminophospholipid transporter-like, class I, type 8A, member 2,ATPase,		
TP8A2		aminophospholipid transporter, class I, type 8A, member 2	ATPase phospholipid transporting 8A2	
XL 284	NM_021913.2		AXL receptor tyrosine kinase	
2M AG2	NM_004048.2 NM_004282.3		beta-2-microglobulin BCL2 associated athanogene 2	
AG3	NM_004281.3		BCL2 associated athanogene 3	
BX CARS	NM_001142568.2	bobby sox homolog (Drosophila), BBX, HMG-box containing	BBX high mobility group box domain containing	
CAR3 CL2		breast cancer anti-estrogen resistance 3,BCAR3, NSP family adaptor protein B-cell CLL/lymphoma 2,BCL2, apoptosis regulator	BCAR3 adaptor protein, NSP family member BCL2 apoptosis regulator	
CL2L1	NM_138578.1		BCL2 like 1	
	NM_001706.2	ZNF51;zinc finger protein 51,B cell CLL/lymphoma 6,BCL6, transcription repressor	BCL6 transcription repressor	
CL6		BDH;3-hydroxybutyrate dehydrogenase (heart, mitochondrial),3-hydroxybutyrate dehydrogenase, type 1	3-hydroxybutyrate dehydrogenase 1	
CL6 DH1	NM_203314.2			
DH1 EX1	NM_018476.3		brain expressed X-linked 1	BEX2 (NM_032621;NM_001168401;NM_001168400;NM_001168399)
DH1 EX1 EX2	NM_018476.3 NM_001168400.1	ДМРН І	brain expressed X-linked 2	BEX2 (NM_032621;NM_001168401;NM_001168400;NM_001168399)
	NM_018476.3 NM_001168400.1	AMPHL bone morphogenetic protein receptor, type IB	brain expressed X-linked 2 bridging integrator 1	BEX2 (NM_032621;NM_001168401;NM_001168400;NM_001168399)
DH1 EX1 EX2	NM_018476.3 NM_001168400.1 NM_004305.2 NM_001203.1 NM_032515.3	AMPHL bone morphogenetic protein receptor, type IB BEL2 related ovarian killer bolA-like 3 (E. coli), bolA homolog 3 (E. coli)	brain expressed X-linked 2	BEXZ (NM_032621;NM_001188400;NM_001168400;NM_001188399)

C1QA	NM_015991.2	complement component 1, q subcomponent, alpha polypeptide,complement component 1, q subcomponent, A chain,complement C1q chain A	complement C1q A chain	
CIUA	NN_013331.2	complement component 1, q subcomponent, beta polypeptide, complement component	complement C14 A chain	
C1QB	NM_000491.3	1, q subcomponent, B chain,complement C1q chain B	complement C1q B chain	
		C1QG;complement component 1, q subcomponent, gamma polypeptide,complement		
C1QC C1orf115	NM_001114101.1 NM_024709.4	component 1, q subcomponent, C chain	complement C1q C chain chromosome 1 open reading frame 115	
CA10	NM_020178.4	carbonic anhydrase X	carbonic anhydrase 10	
CACHD1	NM_020925.2	VWCD1;von Willebrand factor type A and cache domain containing 1	cache domain containing 1	
CACNG8	NM_031895.4	calcium channel, voltage-dependent, gamma subunit 8	calcium voltage-gated channel auxiliary subunit gamma 8 caldesmon 1	
CALD1 CALM2	NM_004342.6 NM_001743.3	calmodulin 2 (phosphorylase kinase, delta)	calmodulin 2	
CALM3	NM_005184.2	calmodulin 3 (phosphorylase kinase, delta)	calmodulin 3	
CAMK4	NM_001744.3		calcium/calmodulin dependent protein kinase IV	
CAMTA2	NM_015099.2	capping protein (actin filament) muscle Z-line, alpha 2,capping actin protein of muscle Z-	calmodulin binding transcription activator 2	
CAPZA2	NM 006136.2	line alpha subunit 2	capping actin protein of muscle Z-line subunit alpha 2	
CASC4	NM_177974.2	cancer susceptibility candidate 4	cancer susceptibility 4	
CBLN1 CCDC115	NM_004352.3 NM 032357.2		cerebellin 1 precursor coiled-coil domain containing 115	
CCDC117	NM_032357.2 NM_173510.2		coiled-coil domain containing 115	
CCT3		TRIC5;chaperonin containing TCP1, subunit 3 (gamma)	chaperonin containing TCP1 subunit 3	
CD2AP	NM_012120.2		CD2 associated protein	
CD47 CD63	NM_001777.3 NM_001780.4	MER6;CD47 antigen (Rh-related antigen, integrin-associated signal transducer) MLA1;CD63 antigen (melanoma 1 antigen)	CD47 molecule CD63 molecule	
CD03	NW_001780.4	DHLAG;CD74 antigen (invariant polypeptide of major histocompatibility complex, class II	ebos morecure	
		antigen-associated),CD74 molecule, major histocompatibility complex, class II invariant		
CD74 CD81	NM_001025159.1 NM_004356.3	TAPA1;CD81 antigen (target of antiproliferative antibody 1)	CD74 molecule CD81 molecule	
CDC42EP1	NM_152243.2	CDC42 effector protein (Rho GTPase binding) 1	CDC42 effector protein 1	
CDC42EP4	NM_012121.4	CDC42 effector protein (Rho GTPase binding) 4	CDC42 effector protein 4	
CDC42SE1	NM_001038707.1		CDC42 small effector 1 cadherin 20	
CDH20 CDH22	NM_031891.2 NM 021248.2	cadherin 20, type 2 C20orf25;cadherin-like 22,cadherin 22, type 2	cadherin 22	
CDK14	NM_001287135.1	PFTK1;PFTAIRE protein kinase 1	cyclin dependent kinase 14	
CDK18	NM_002596.3	PCTK3;PCTAIRE protein kinase 3	cyclin dependent kinase 18	
CDKL5	NM_001037343.1	STK9;serine/threonine kinase 9,cyclin-dependent kinase-like 5 LASS2;longevity assurance (LAG1, S. cerevisiae) homolog 2,LAG1 longevity assurance	cyclin dependent kinase like 5	
CERS2	NM_022075.3	homolog 2 (S. cerevisiae),LAG1 homolog, ceramide synthase 2	ceramide synthase 2	
CFLAR	NM_001127183.1	CASP8AP1;CASP8 and FADD-like apoptosis regulator	CASP8 and FADD like apoptosis regulator	sub-maximal isoform coverage due to non-overlapping variants
CGGBP1 CHGB	NM_001195308.1	SCG1:secretogranin 1	CGG triplet repeat binding protein 1 chromogranin B	
CHGB CHN1		SCG1;secretogranin 1 CHN,DURS2;Duane retraction syndrome 2,chimerin (chimaerin) 1	chromogranin B chimerin 1	
CHORDC1	NM_012124.2	cysteine and histidine-rich domain (CHORD)-containing, zinc-binding protein 1	cysteine and histidine rich domain containing 1	
CHRAC1	NR_023360.2		chromatin accessibility complex subunit 1	
CHRM1 CHRM3	NM_000738.2 NM_000740.2		cholinergic receptor muscarinic 1 cholinergic receptor muscarinic 3	
CHIMINIO	NW_000740.2	cholinergic receptor, nicotinic, beta polypeptide 2 (neuronal),cholinergic receptor,	enomici pre receptor musicannic s	
CHRNB2	NM_000748.2	nicotinic, beta 2 (neuronal),cholinergic receptor, nicotinic beta 2	cholinergic receptor nicotinic beta 2 subunit	
CIRBP	NR_023313.1	cold inducible RNA-binding protein	cold inducible RNA binding protein	
CLDN10 CLDN11	NM_001160100.1	OTM:oligodendrocyte transmembrane protein	claudin 10 claudin 11	
CLDN5		AWAL,TMVCF;transmembrane protein deleted in velocardiofacial syndrome	claudin 5	
CLIC1	NM_001288.4		chloride intracellular channel 1	
CLMN CLSTN3	NM_024734.3 NM_014718.3	calmin (calponin-like, transmembrane)	calmin calsyntenin 3	
CLSTN3	NM_014/18.3	CKLFSF5;chemokine-like factor super family 5,chemokine-like factor superfamily 5,CKLF-	caisyntenin 3	
CMTM5	NM_001037288.1	like MARVEL transmembrane domain containing 5	CKLF like MARVEL transmembrane domain containing 5	
		CKLFSF6;chemokine-like factor super family 6,chemokine-like factor superfamily 6,CKLF-		
CMTM6 CNKSR2	NM_017801.2 NM_014927.2	like MARVEL transmembrane domain containing 6	CKLF like MARVEL transmembrane domain containing 6 connector enhancer of kinase suppressor of Ras 2	
CNN3	NM_001839.4	calponin 3, acidic	calponin 3	
CNP	NM_033133.4		2',3'-cyclic nucleotide 3' phosphodiesterase	
CNTN2 CNTN4	NM_005076.2 NM 175613.2	TAX,AXT;contactin 2 (axonal)	contactin 2 contactin 4	
CNTNAP1	NM_1/5613.2 NM_003632.2	NRXN4	contactin associated protein 1	
COA3		CCDC56;coiled-coil domain containing 56	cytochrome c oxidase assembly factor 3	
COL9A2	NM_001852.3	EDM2;collagen, type IX, alpha 2	collagen type IX alpha 2 chain	
COL9A3 COMMD4	XM_011528545.1 NM_001284377.1	collagen, type IX, alpha 3	collagen type IX alpha 3 chain COMM domain containing 4	
COMMD4	NW_001284377.1	COP9 (constitutive photomorphogenic, Arabidopsis, homolog) subunit 3,COP9	COMM domain containing 4	
COPS3	NM_003653.3	constitutive photomorphogenic homolog subunit 3 (Arabidopsis)	COP9 signalosome subunit 3	
COPS4	NM 016129.2	COP9 (constitutive photomorphogenic, Arabidopsis, homolog) subunit 4,COP9	CORO signal acomo suburit 4	
COP34	NM_016125.2 NM_016035.3	constitutive photomorphogenic homolog subunit 4 (Arabidopsis) coenzyme Q4 homolog (yeast),coenzyme Q4 homolog (S. cerevisiae)	COP9 signalosome subunit 4 coenzyme Q4	TRUB2 (NM_001329861;NM_001329863)
CORO2A	NM_052820.3	coronin, actin-binding protein, 2A	coronin 2A	
COX6C	NM_004374.2	cytochrome c oxidase subunit VIc	cytochrome c oxidase subunit 6C	
COX6C COX7A2L	NM_004374.2 NM_004718.3		cytochrome c oxidase subunit 7A2 like	
COX6C COX7A2L CPLX1 CPNE2	NM_004374.2 NM_004718.3 NM_006651.3 NM_152727.5	cytochrome c oxidase subunit VIc cytochrome c oxidase subunit VIIa polypeptide 2 like copine II	cytochrome c oxidase subunit 7A2 like complexin 1 copine 2	
COX6C COX7A2L CPLX1 CPNE2 CPT1A	NM_004374.2 NM_004718.3 NM_006651.3 NM_152727.5 NM_001876.3	cytochrome c oxidase subunit VIC cytochrome c oxidase subunit VIIa polypeptide 2 like copine II OPT1;carnitine palmitoyltransferase 1A (liver)	cytochrome c oxidase subunit 7A2 like complexin 1 copine 2 carnitine palmitoyltransferase 1A	
COX6C COX7A2L CPLX1 CPNE2	NM_004374.2 NM_004718.3 NM_006651.3 NM_152727.5	cytochrome c oxidase subunit VIc cytochrome c oxidase subunit VII a polypeptide 2 like copine II CPT1.carnitine palmitoyltransferase 1A (liver) colony stimulating factor 1 (macrophage)	cytochrome c oxidase subunit 7A2 like complexin 1 copine 2	
COX6C COX7A2L CPLX1 CPNE2 CPT1A	NM_004374.2 NM_004718.3 NM_006651.3 NM_152727.5 NM_001876.3 NM_000757.4 NM_024969.3	cytochrome c oxidase subunit VIC cytochrome c oxidase subunit VIIa polypeptide 2 like copine II OPT1;carnitine palmitoyltransferase 1A (liver)	cytochrome c oxidase subunit 7A2 like complexin 1 copine 2 carnitine palmitoyltransferase 1A	
COX6C COX7A2L CPLX1 CPNE2 CPT1A CSF1	NM_004374.2 NM_004718.3 NM_006651.3 NM_152727.5 NM_001876.3 NM_000757.4	cytochrome c oxidase subunit VIC cytochrome c oxidase subunit VIIa polypeptide 2 like copine II CPT1.carnitine palmitoyltransferase 1A (liver) colony stimulating factor 1 (macrophage) FAM130A2,Tamily with sequence similarity 130, member A2,cysteine-serine-rich nuclear protein 3 caterin (cadherin-associated protein), alpha 1 (102kD)	cytochrome c oxidase subunit 7A2 like complexin 1 copine 2 carnitine palmitoyltransferase 1A colony stimulating factor 1	
COX6C COX7A2L CPLX1 CPNE2 CPT1A CSF1 CSRNP3 CTNNA1	NM_004374.2 NM_004718.3 NM_006651.3 NM_152727.5 NM_001876.3 NM_000757.4 NM_024969.3 NM_001903.2	cytochrome c oxidase subunit VIC cytochrome c oxidase subunit VIIa polypeptide 2 like copine II OFT1; carnitine palmitoyltransferase 1A (liver) colony stimulating factor 1 (macrophage) FAM130A2, family with sequence similarity 130, member A2, cysteine-serine-rich nuclear protein 3 caterini (cacherin-associated protein), alpha 1 (102k0) caterini (cacherin-associated protein), delta 2 (neural plakophilin-related arm-repeat	cytochrome c oxidase subunit 7A2 like complexin 1 copine 2 carnitine palmitoryltransferase 1A colony stimulating factor 1 cysteine and serine rich nuclear protein 3 catenin alpha 1	
COX6C COX7A2L CPLX1 CPNE2 CPT1A CSF1 CSRNP3 CTNNA1 CTNND2	NM_004374.2 NM_004718.3 NM_006651.3 NM_152727.5 NM_001876.3 NM_000757.4 NM_024969.3 NM_001903.2 NM_001332.2	cytochrome c oxidase subunit VIC cytochrome c oxidase subunit VIIa polypeptide 2 like copine II CPT1.carnitine palmitoyltransferase 1A (liver) colony stimulating factor 1 (macrophage) FAM130A2,Tamily with sequence similarity 130, member A2,cysteine-serine-rich nuclear protein 3 caterin (cadherin-associated protein), alpha 1 (102kD)	cytochrome c oxidase subunit 7A2 like complexin 1 copine 2 carnitine palmitor/transferase 1A colony stimulating factor 1 cysteine and serine rich nuclear protein 3 catenin alpha 1 catenin delta 2	
COX6C COX7A2L CPLX1 CPNE2 CPT1A CSF1 CSRNP3 CTNNA1 CTNND2 CTSS CUEDC1	NM_004374.2 NM_004718.3 NM_006651.3 NM_152727.5 NM_001876.3 NM_000757.4 NM_024969.3 NM_001903.2 NM_001332.2 NM_004079.3 NM_001271875.1	cytochrome c oxidase subunit VIIc oytochrome c oxidase subunit VIII polypeptide 2 like copine II OPT1;carnitine palmitoyltransferase 1A (liver) colony stimulating factor 1 (macrophage) FAM130A;Family with sequence similarity 130, member A2,cysteine-serine-rich nuclear protein 3 caterini (cadherin-associated protein), alpha 1 (102k0) caterini (cadherin-associated protein), delta 2 (neural plakophilin-related arm-repeat protein),caterini (cadherin-associated protein), delta 2	cytochrome c oxidase subunit 7A2 like complexin 1 copine 2 carnitine palmitor/ltransferase 1A cotiony stimulating factor 1 cysteine and serine rich nuclear protein 3 catenin alpha 1 catenin delta 2 cathepsin S CUE domain containing 1	
COXEC COXTAZL CPLY1 CPNE2 CPT1A CSF1 CSRNP3 CTNNA1 CTNNA1 CTNND2 CTSS CUEDC1 CYBA	NM_004374.2 NM_004718.3 NM_006651.3 NM_152727.5 NM_001876.3 NM_000757.4 NM_004969.3 NM_001903.2 NM_004079.3 NM_001271875.1 NM_0010101.2	cytochrome c oxidase subunit VIC cytochrome c oxidase subunit VIIa polypeptide 2 like copine II OFT1; carnitine palmitoyltransferase 1A (liver) colony stimulating factor 1 (macrophage) FAM130A2, family with sequence similarity 130, member A2, cysteine-serine-rich nuclear protein 3 caterini (cacherin-associated protein), alpha 1 (102k0) caterini (cacherin-associated protein), delta 2 (neural plakophilin-related arm-repeat	cytochrome c oxidase subunit 7A2 like complexin 1 copine 2 carniline palmitopitransferase 1A colony stimulating factor 1 cysteine and serine rich nuclear protein 3 catenin alpha 1 catenin delta 2 catenine delta 2 catenine oxidation serial consideration oxidation oxi	
COX6C COX7A2L CPLX1 CPNE2 CPT1A CSF1 CSRNP3 CTNNA1 CTNND2 CTSS CUEDC1	NM_004374.2 NM_004718.3 NM_006651.3 NM_152727.5 NM_001876.3 NM_000757.4 NM_024969.3 NM_001903.2 NM_001332.2 NM_004079.3 NM_001271875.1	cytochrome c oxidase subunit VIIc oytochrome c oxidase subunit VIII polypeptide 2 like copine II OPT1;carnitine palmitoyltransferase 1A (liver) colony stimulating factor 1 (macrophage) FAM130A;Family with sequence similarity 130, member A2,cysteine-serine-rich nuclear protein 3 caterini (cadherin-associated protein), alpha 1 (102k0) caterini (cadherin-associated protein), delta 2 (neural plakophilin-related arm-repeat protein),caterini (cadherin-associated protein), delta 2	cytochrome c oxidase subunit 7A2 like complexin 1 copine 2 carnitine palmitor/ltransferase 1A cotiony stimulating factor 1 cysteine and serine rich nuclear protein 3 catenin alpha 1 catenin delta 2 cathepsin S CUE domain containing 1	
COXEC COXTA2L CPIX1 CPNE2 CPT1A CSF1 CSFNP3 CTNNA1 CTNND2 CTSS CUEDC1 CYBA CYFIP2	NM_004374.2 NM_00478.3 NM_0157277.5 NM_01876.3 NM_01876.3 NM_00757.4 NM_024969.3 NM_001903.2 NM_001932.2 NM_004079.3 NM_001271875.1 NM_001011.2 NM_001013.3	cytochrome c oxidase subunit VIIc oytochrome c oxidase subunit VIII polypeptide 2 like copine II OPT1;carnitine palmitoyltransferase 1A (liver) colony stimulating factor 1 (macrophage) FAM130A;Family with sequence similarity 130, member A2,cysteine-serine-rich nuclear protein 3 caterini (cadherin-associated protein), alpha 1 (102k0) caterini (cadherin-associated protein), delta 2 (neural plakophilin-related arm-repeat protein),caterini (cadherin-associated protein), delta 2	cytochrome c oxidase subunit 7A2 like complexin 1 copine 2 carniline palmitopitransferase 1A colony stimulating factor 1 cysteine and serine rich nuclear protein 3 catenin alpha 1 catenin delta 2 catenine delta 2 catenine oxidation serial consideration oxidation oxi	
COXEC COXTA2L CPIX1 CPNE2 CPT11 CSF1 CSRNP3 CTNNA1 CTNND2 CTSS CUEDC1 CVBA CYFIP2 CYP27A1	NM_004374.2 NM_004718.3 NM_006651.3 NM_152727.5 NM_001876.3 NM_001767.4 NM_024969.3 NM_00193.2 NM_001332.2 NM_0010373.3 NM_001037333.1 NM_001037333.1	cytochrome c oxidase subunit VIC cytochrome c oxidase subunit VIIa polypeptide 2 like copine II CPT3;carnitine palmitoyltransferase 1A (liver) colony stimulating factor 1 (macrophage) FAM130A2;family with sequence similarity 130, member A2,cysteine-serine-rich nuclear protein 3 catenin (cadherin-associated protein), alpha 1 (102k0) catenin (cadherin-associated protein), delta 2 (neura plakophilin-related arm-repeat protein),catenin (cadherin-associated protein), delta 2 cytochrome b-245, alpha polypeptide CYP27;cytochrome P450, subfamily XXVIIA (steroid 27-hydroxylase, cerebrotendinous	cytochrome c oxidase subunit 7A2 like complexin 1 copine 2 carniline palmitoqltransferase 1A colony stimulating factor 1 cytetine and serine rich nuclear protein 3 catenin alpha 1 catenin delta 2 catenin delta 2 catenin delta 2 catenin selta 2 count or	
COXEC COXTA2L CPIX1 CPNE2 CPT1A CSF1 CSRNP3 CTNNA1 CTNND2 CTSS CUEDC1 CYBA CYFIP2 CYP27A1 DAAM2	NM_004374.2 NM_004718.3 NM_006651.3 NM_152727.5 NM_001876.3 NM_001757.4 NM_024969.3 NM_001903.2 NM_001903.2 NM_001933.2 NM_00479.3 NM_001271875.1 NM_001037333.1	cytochrome c oxidase subunit VIC cytochrome c oxidase subunit VIIa polypeptide 2 like copine II CPT3;carnitine palmitoyltransferase 3A (liver) colony stimulating factor 1 (macrophage) FAM130A2;family with sequence similarity 130, member A2,cysteine-serine-rich nuclear protein 3 catenin (cadherin-associated protein), alpha 1 (102kD) catenin (cadherin-associated protein), delta 2 (heural plakophilin-related arm-repeat protein),catenin (cadherin-associated protein), delta 2 cytochrome b-245, alpha polypeptide CYP27;cytochrome P450, subfamily XXVIIA (steroid 27-hydroxylase, cerebrotendinous xanthomatosis), polypeptide 1,cytochrome P450, family 27, subfamily A, polypeptide 1	cytochrome c oxidase subunit 7A2 like complexin 1 copine 2 carnitine palmitoyttransferase 1A colony stimulating factor 1 cysteine and serine rich nuclear protein 3 catenin alpha 1 catenin alpha 1 catenin delta 2 catenin sipha 1 CUE domain containing 1 Cytochrome D-425 alpha chain cytoplasmic FMR1 interacting protein 2 cytochrome D-450 family 27 subfamily A member 1 dishevelled associated activator of morphogenesis 2	
COXEC COXTA2L CPIX1 CPNE2 CPT11 CSF1 CSRNP3 CTNNA1 CTNND2 CTSS CUEDC1 CVBA CYFIP2 CYP27A1	NM_004374.2 NM_004718.3 NM_006651.3 NM_152727.5 NM_001876.3 NM_001757.4 NM_024969.3 NM_001903.2 NM_001903.2 NM_001933.2 NM_00479.3 NM_001271875.1 NM_001037333.1	cytochrome c oxidase subunit VIC cytochrome c oxidase subunit VIIa polypeptide 2 like copine II CPT3;carnitine palmitoyltransferase 1A (liver) colony stimulating factor 1 (macrophage) FAM130A2;family with sequence similarity 130, member A2,cysteine-serine-rich nuclear protein 3 catenin (cadherin-associated protein), alpha 1 (102k0) catenin (cadherin-associated protein), delta 2 (neura plakophilin-related arm-repeat protein),catenin (cadherin-associated protein), delta 2 cytochrome b-245, alpha polypeptide CYP27;cytochrome P450, subfamily XXVIIA (steroid 27-hydroxylase, cerebrotendinous	cytochrome c oxidase subunit 7A2 like complexin 1 copine 2 carniline palmitoqltransferase 1A colony stimulating factor 1 cytetine and serine rich nuclear protein 3 catenin alpha 1 catenin delta 2 catenin delta 2 catenin delta 2 catenin selta 2 count or	
COXEC COXTA21 CPUX1 CPUX1 CPNE2 CPT1A CSF1 CSRNP3 CTNNA1 CTNND2 CTSS CUEDC1 CVBA CYF1P2 CYP27A1 DAAM2 DAAG1 DARS	NM_0043742 NM_004718.3 NM_006551.3 NM_006551.3 NM_006551.3 NM_00157.4 NM_00137.4 NM_00193.2 NM_001332.2 NM_001012.2 NM_001011.2 NM_001011.2 NM_001013333.1 NM_001013345.2 NM_00101349.2 NM_001349.2	cytochrome c oxidase subunit VIC cytochrome c oxidase subunit VIIa polypeptide 2 like copine II CPT1;carnitine palmitoyltransferase 1A (liver) colony stimulating factor 1 (macrophage) FAM130A;7amily with sequence similarity 130, member A2,cysteine-serine-rich nuclear protein 3 catenin (cadherin-associated protein), alpha 1 (102kD) catenin (cadherin-associated protein), delta 2 (neural plakophilin-related arm-repeat protein),catenin (cadherin-associated protein), delta 2 cytochrome b-245, alpha polypeptide CYP27;cytochrome P450, subfamily XXVIIA (steroid 27-hydroxylase, cerebrotendinous xanthomatosis), polypeptide 1,cytochrome P450, family 27, subfamily A, polypeptide 1 dystroglycan 1 (dystrophin-associated glycoprotein 1) C20orf35;chromosome 20 open reading frame 35,dysbindin (dystrobrevin binding	cytochrome c oxidase subunit 7A2 like complexis 1 copine 2 carnitine palmitoqltransferase 1A colony stimulating factor 1 cytetiene and serine rich nuclear protein 3 catenin alpha 1 colonia containing 1 cytochrome b -24S alpha chain cytoplasmic FMR1 interacting protein 2 cytochrome P-450 family 27 subfamily A member 1 dishevelled associated activator of morphogenesis 2 dystroglycan 1 aspartyl-RNA synthetase	
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COXEC COXTA21 CPUX1 CPUX1 CPNE2 CPT1A CSF1 CSRNP3 CTNNA1 CTNND2 CTSS CUEDC1 CVBA CYF1P2 CYP27A1 DAAM2 DAAG1 DARS	NM_0043742 NM_004718.3 NM_006551.3 NM_006551.3 NM_006551.3 NM_00157.4 NM_00137.4 NM_00193.2 NM_001332.2 NM_001012.2 NM_001011.2 NM_001011.2 NM_001013333.1 NM_001013345.2 NM_00101349.2 NM_001349.2	cytochrome c oxidase subunit VIC yortochrome c oxidase subunit VIIa polypeptide 2 like copine II CPT1;carnitine palmitoyltransferase 1A (liver) colony stimulating factor 1 (macrophage) FAM130A;7amily with sequence similarity 130, member A2,cysteine-serine-rich nuclear protein 3 catenin (cadherin-associated protein), alpha 1 (102kb) catenin (cadherin-associated protein), delta 2 (neural plakophilin-related arm-repeat protein),catenin (cadherin-associated protein), delta 2 cytochrome b-245, alpha polypeptide CYP27;cytochrome P450, subfamily XXVIIA (steroid 27-hydroxylase, cerebrotendinous xanthomatosis), polypeptide 1,cytochrome P450, family 27, subfamily A, polypeptide 1 dystroglycan 1 (dystrophin-associated glycoprotein 1) C20orf35;chromosome 20 open reading frame 35,dysbindin (dystrobrevin binding protein 1) domain containing 2 W0R42A;WD repeat domain 42A	cytochrome c oxidase subunit 7A2 like complexis 1 copine 2 carnitine palmitoqltransferase 1A colony stimulating factor 1 cytetiene and serine rich nuclear protein 3 catenin alpha 1 colonia containing 1 cytochrome b -24S alpha chain cytoplasmic FMR1 interacting protein 2 cytochrome P-450 family 27 subfamily A member 1 dishevelled associated activator of morphogenesis 2 dystroglycan 1 aspartyl-RNA synthetase	
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COXEC COXYAZL CPIX1 CPIX1 CPNE2 CPT1A CSF1 CSRNP3 CTNNA1 ETNND2 CTSS CUEDC1 CYBA CYFIP2 CYP27A1 DAAM2 DAG1 DAAM2 DAG1 DARS DBNDD2 DCAF8 DDX41 DDX42	NM_004374.2 NM_004718.3 NM_006651.3 NM_006651.3 NM_1052727.5 NM_001876.3 NM_001903.2	cytochrome c oxidase subunit VIC cytochrome c oxidase subunit VIIa polypeptide 2 like copine II CPT3;carmitine palmitoyltransferase 1A (liver) colony stimulating factor 1 (macrophage) FAM130A;family with sequence similarity 130, member A2,cysteine-serine-rich nuclear protein 3 caterini (cadherin-associated protein), alpha 1 (102ko) caterini (cadherin-associated protein), delta 2 (neural plakophilin-related arm-repeat protein), acaterini (cadherin-associated protein), delta 2 cytochrome b-245, alpha polypeptide CYP27;cytochrome P450, subfamily XXVIIA (steroid 27-hydroxylase, cerebrotendinous xanthomatosis), polypeptide 1,cytochrome P450, family 27, subfamily A, polypeptide 1 dystroglycan 1 (dystrophin-associated glycoprotein 1) CZObr135;chromosome 20 open reading frame 35,dysbindin (dystrobrevin binding protein 1) domain containing 2 WDR42;WD repeat domain 42A DEAD (Asp-Glu-Ala-Asp) box polypeptide 42,DEAD (Asp-Glu-Ala-Asp) box helicase 42	cytochrome c oxidase subunit 7A2 like complexin 1 copine 2 carnitine palmitorytransferase 1A colony stimulating factor 1 cysteine and serine rich nuclear protein 3 catenin alpha 1 catenin alpha 1 catenin alpha 1 catenin delta 2 catenin delta 3 catenin de	
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COXEC COXYA21 CPUX1 CPUX1 CPNE2 CPT1A CSF1 CSF1 CSFNP3 CTNNA1 CTNND2 CTSS CUEDC1 CVBA CVFIP2 CYP27A1 DAAM2 DAG1 DARS DBNDD2 DCAF8 DDX41 DDX42 DECR1 DHRS11	NM_0043742. NM_004718.3 NM_006651.3 NM_006651.3 NM_1057275. NM_001876.3 NM_001876.3 NM_001973.2 NM_001332.2 NM_001332.2 NM_001132.2 NM_001011.2 NM_00101.2 NM_00101.2 NM_001015933.3.1 NM_0015945.2 NM_00165945.2 NM_00165945.3 NM_015945.3 NM_01595.3	cytochrome c oxidase subunit VIC cytochrome c oxidase subunit VIIa polypeptide 2 like copine II CPT2xcarnitine palmitoyttransferase 3A (liver) colony stimulating factor 1 (macrophage) FAM130A2,family with sequence similarity 130, member A2,cysteine-serine-rich nuclear protein 3 catenin (cadherin-associated protein), alpha 1 (102k0) catenin (cadherin-associated protein), delta 2 (neural plakophilin-related arm-repeat protein), catenin (cadherin-associated protein), delta 2 cytochrome b-245, alpha polypeptide CYP27;cytochrome P450, subfamily XXVIIA (steroid 27-hydroxylase, cerebrotendinous xanthomatosis), polypeptide 1,cytochrome P450, family 27, subfamily A, polypeptide 1 dystroglycan 1 (dystrophin-associated glycoprotein 1) C20cr153;chromosome 20 open reading frame 35,dysbindin (dystrobrevin binding protein 1) domain containing 2 WRM22;WVD repeat domain 424 DEA0 (Asp-Glu-Ala-Asp) box polypeptide 42,DEA0 (Asp-Glu-Ala-Asp) box polypeptide 42 DECA;2,4-denoyl-CoA reductase 1, mitochondrial dehydrogenase/reductase (SDR family) member 11 C20cr153;QATFL;hromosome 20 open reading frame 158,death associated	cytochrome c oxidase subunit 7A2 like complexis 1 copine 2 carnitine palmitoqltransferase 1A colony stimulating factor 1 cysteine and serine rich nuclear protein 3 catenin alpha 1 catenin alpha 1 catenin delta 2 cathepsin S CUE domain containing 1 cytochrome b -245 alpha chain cytoplasmic FMR1 interacting protein 2 cytochrome b -255 family 27 subfamily A member 1 dishevelled associated activator of morphogenesis 2 dystroglyan 1 asparty-RRNA synthetase dysbindin domain containing 2 DDB1 and CULM associated factor 8 DEAD-box helicase 41 DEAD-box helicase 42 2,4-dienoyl-CoA reductase 1 dehydrogesase/reductase 1 dehydrogesase/reductase 11 dehydrogesase/reductase 1 dehydrogenase/reductase 1 dehydrogenase/reductase 1	
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COXEC COXYA21 CPIX1 CPIX1 CPNE2 CPT1A CSF1 CSF1 CTNNA1 CTNND2 CTSS CUEDC1 CVBA CVFIP2 CVP27A1 DAMM2 DAG1 DAMM2 DAG1 DAWM2 DAG1 DAWM2 DECAF8 DDX41 DDX41 DDX42 DECK1 DHRS11 DIDO1 DIP28 DIRAS2 DIG3 DIGAP1 DMAIM2 DMAIM4 DMAIM6 DMAIM2 DMAIM6 DMAIM2 DMAIM6 DMAIM2 DMAIM6 DMAIM6 DMAIM1 DOCK10 DDOCK3 DOCK91	NM_0043742. NM_00478.3 NM_006651.3 NM_006651.3 NM_001876.3 NM_001876.3 NM_001372.7 NM_001332.2 NM_001332.2 NM_001332.2 NM_0013333.1 NM_001271875.1 NM_00101.2 NM_00101.3 NM_00101.3 NM_00101.3 NM_00101.3 NM_00103333.1 NM_001501.3 NM_00193369.1 NM_0019340.3 NM_	cytochrome c oxidase subunit VIIa polypeptide 2 like copine II CFT;scrantline palmitoryttransferase 3A (liver) colony stimulating factor 1 (macrophage) FAM130A2;family with sequence similarity 130, member A2,cysteine-serine-rich nuclear protein 3 catenin (cadherin-associated protein), alpha 1 (102k0) catenin (cadherin-associated protein), alpha 1 (102k0) catenin (cadherin-associated protein), delta 2 cytochrome b-245, alpha polypeptide CYP27;cytochrome P450, subfamily XXVIIA (steroid 27-hydroxylase, cerebrotendinous xanthomatosis), polypeptide 1,cytochrome P450, family 27, subfamily A, polypeptide 1 dystroglycan 1 (dystrophin-associated glycoprotein 1) C20cr153;chromosome 20 open reading frame 35,dysbindin (dystrobrevin binding protein 1) domain containing 2 WDR42A;WD repeat domain 42A DEAD (Asp-Glu-Ala-Asp) box polypeptide 41. DEAD (Asp-Glu-Ala-Asp) box polypeptide 42,DEAD (Asp-Glu-Ala-Asp) box helicase 42 DECR2,2-delenoyl-CoA reductase 1, mitochondrial dehydrogenase/reductase (SDR family) member 11 C20cr153;DATF;hromosome 20 open reading frame 158,death associated transcription factor 1 DIP2 disco-interacting protein 2 homolog 8 (Drosophila) DIRAS family, GTP-binding RAS-like 2 discs, large homolog 3 (neuroendorin-edig, Drosophila) DIRAS family, GTP-binding RAS-like 2 discs, large homolog 3 (neuroendorin-edig, Drosophila) DIRAS family, GTP-binding RAS-like 2 discs, large homolog 3 (neuroendorin-edig, Drosophila) DIRAS family, GTP-binding RAS-like 2 discs, large homolog 3 (neuroendorin-edig, Drosophila) DIRAS family, GTP-binding RAS-like 2 discs, large homolog 3 (neuroendorin-edig, Drosophila) DIRAS family, GTP-binding RAS-like 2 discs, large homolog 3 (neuroendorin-edig, Drosophila) DIRAS family, GTP-binding RAS-like 2 discs, large homolog 3 (neuroendorin-edig, Drosophila) DIRAS family, GTP-binding RAS-like 2 discs, large homolog 3 (neuroendorin-edig, Drosophila) DIRAS family, GTP-binding RAS-like 2 discs, large homolog 3 (neuroendorin-edig, Drosophila) discs, large h	cytochrome c oxidase subunit 7A2 like complexin 1 copine 2 carnitine palmitoqitransferase 1A colony stimulating factor 1 cytestene and serine rich nuclear protein 3 catenin alpha 1 catenin alpha 1 catenin alpha 1 catenin alpha 1 Cut domain containing 1 cytochrome b-24S alpha chain cytoplasmic FMR1 interacting protein 2 cytochrome p-45O family 27 subfamily A member 1 dishevelled associated activator of morphogenesis 2 dystroglyvan 1 asparsty-RRNA synthetase dysbindin domain containing 2 DDB3 and CULM associated factor 8 DEAD-box helicase 41 DEAD-box helicase 41 DEAD-box helicase 42 2.4-dienoy-Loc Areductase 1 dehydrogenase/reductase 11 death inducer-obliterator 1 discisco interacting protein 2 DISAS family GTPase 2 discs large MAGUK scaffold protein 3 DLG associated protein 1 Dnai heat shock protein family (Hsp40) member A2 Dnai heat shock protein family (Hsp40) member B4 Dnai heat shock protein family (Hsp40) member B6 Dnai heat shock protein family (Hsp40) member C9 dynamin 1 dedicator of cytokinesis 3 DDP1 leucine sipper like protein A	
COXEC COXYA21 CPUX1 CPUX1 CPNE2 CPT1A CSF1 CSF1 CSFNP3 CTNNA1 CTNND2 CTSS CUEDC1 CVBA CVFIP2 DAAM2 DAG1 DARS DBNDD2 DCAF8 DDX41 DDX41 DDX42 DECR1 DIDO1 DIP2B DIRAS2 DIG3 DIGAP1 DNAIB4 DNAIB6 DNAIC9 DNM1 DOCK10 DDCK1 DDM1	NM_0043742. NM_004718.3 NM_006651.3 NM_006651.3 NM_001876.3 NM_001876.3 NM_001876.3 NM_00193.2 NM_001332.2 NM_001332.2 NM_001332.2 NM_0010132.2 NM_0010132.2 NM_001013333.1 NM_001212875.1 NM_0010139333.1 NM_001594.3 NM_001594.3 NM_001594.3 NM_001594.3 NM_0013933.3 NM_001393.3 NM_001393.3 NM_001393.3 NM_001393.3 NM_00193369.1 NM_001934.3	cytochrome c oxidase subunit VIIa polypeptide 2 like copine II CFT3;carnitine palmitotyttransferase 1A (liver) colony stimulating factor 1 (macrophage) FAM130A2;family with sequence similarity 130, member A2,cysteine-serine-rich nuclear protein 3 catenia (cadherin-associated protein), alpha 1 (102k0) catenia (cadherin-associated protein), alpha 1 (102k0) catenia (cadherin-associated protein), delta 2 (meura) plakophilin-related arm-repeat protein), catenia (cadherin-associated protein), delta 2 cytochrome b-245, alpha polypeptide CYP27;cytochrome P450, subfamily XXVIIA (steroid 27-hydroxylase, cerebrotendinous xanthomatosis), polypeptide 1,cytochrome P450, family 27, subfamily A, polypeptide 1 CYD27;cytochrome P450, subfamily XXVIIA (steroid 27-hydroxylase, cerebrotendinous xanthomatosis), polypeptide 1,cytochrome P450, family 27, subfamily A, polypeptide 1 CYD27;cytochrome P450, subfamily XXVIIA (steroid 27-hydroxylase, cerebrotendinous xanthomatosis), polypeptide 1,cytochrome P450, family 27, subfamily A, polypeptide 1 CYD27;cytochrome P450, subfamily XXVIIA (steroid 27-hydroxylase, cerebrotendinous xanthomatosis), polypeptide 1,cytochrome P450, family 27, subfamily A, polypeptide 1 CYD27;cytochrome P450, subfamily 22 WB842;AWD repeat domain 42A EADA (Asp-Glu-Ala-Asp) box polypeptide 41 DEAD (Asp-Glu-Ala-Asp) box polypeptide 42, DEAD (Asp-Glu-Ala-Asp) box helicase 42 DECK12;A-dienoyl-CoA reductase 1, mitochondrial delydrogenase/ceductase (SDR family) member 11 CYD0;T3;S,DATF1;chromosome 20 open reading frame 158, death associated transcription factor 1 DP2 disco-interacting protein 2, homolog 8 (Drosophila) DRAS family, CFP brinding 8AS-Like 2 discs, large homolog 3 (neuroendocrine-dig, Drosophila), duscs, large homolog 3 (neuroendocrine-dig, Drosophila), discs, la	cytochrome c oxidase subunit 7A2 like complexin 1 copine 2 carnitine palmitoqitransferase 1A colony stimulating factor 1 cytestien and serine rich nuclear protein 3 catenin alpha 1 coth domain containing 1 cytochrome b-245 alpha chain cytoplasmic FMR1 interacting protein 2 cytochrome p-450 family 27 subfamily A member 1 dishevelled associated activator of morphogenesis 2 dystroglyvan 1 asparty-RRNA synthetase dysbindin domain containing 2 DDB3 and CUL4 associated factor 8 DEAD-box helicase 41 DEAD-box helicase 41 DEAD-box helicase 42 2,4-dienoy-Lox celluctures 1 death inducer-obiliterator 1 discince interacting protein 2 discince interacting protein 2 discince interacting protein 2 domain and inducer-obiliterator 1 discince interacting protein 2 homolog B DIRAS family GTPase 2 discs large MAGUK scaffold protein 3 DLG associated protein 1 Dnai heat shock protein family (Hsp40) member A2 Dnai heat shock protein family (Hsp40) member B6 Dnai heat shock protein family (Hsp40) member C9 dynamin 1 dediciator of cytokinesis 3	sub-maximal isoform coverage due to non-overlapping transcript variants
COXEC COXYA21 CPIX1 CPIX1 CPNE2 CPT1A CSF1 CSF1 CSF1 CTNNA1 CTNND2 CTSS CTNNA1 CTNND2 CTSS CTNAA1 CTND2 CTSS DAAM2 DAAM2 DAAM2 DAAM2 DAAM2 DAAM1 DDARS DBNDD2 DCAF8 DDX41 DDX42 DECR1 DDHRS11 DIDO1 DIP2B DIRAS2 DLG3P1 DNAIA2 DNAIA6 DOCK10 DOC	NM_0043742. NM_00478.3 NM_006651.3 NM_006651.3 NM_001876.3 NM_001876.3 NM_001876.3 NM_001903.2 NM_001903.2 NM_001903.2 NM_001932.2 NM_001932.3 NM_001932.3 NM_001932.3 NM_001932.3 NM_0015345.2 NM_001359.2 NM_00165925.2 NM_00148221.2 NM_00148221.2 NM_001390.1 NM_0015726.3 NM_0015726.3 NM_001590.3 NM_001590.3 NM_001590.3 NM_001590.3 NM_001590.3 NM_001390.1 NM_173602.2 NM_001390.3	cytochrome c oxidase subunit VIIc cytochrome c oxidase subunit VIIa polypeptide 2 like copine II CPT3;carnitine palmitotytransferase 1A (liver) colony stimulating factor 1 (macrophage) FAM130A2;family with sequence similarity 130, member A2,cysteine-serine-rich nuclear protein 3 catenin (cadherin-associated protein), alpha 1 (102k0) catenin (cadherin-associated protein), alpha 1 (102k0) catenin (cadherin-associated protein), deta 2 cytochrome b-245, alpha polypeptide CYP27;cytochrome P450, subfamily XXVIIA (steroid 27-hydroxylase, cerebrotendinous xanthomatosis), polypeptide 1,cytochrome P450, family 27, subfamily A, polypeptide 1 CYD27;cytochrome P450, subfamily XXVIIA (steroid 27-hydroxylase, cerebrotendinous xanthomatosis), polypeptide 1,cytochrome P450, family 27, subfamily A, polypeptide 1 dystroglycan 1 (dystrophin-associated glycoprotein 1) C20or135;chromosome 20 open reading frame 35,dysbindin (dystrobrevin binding protein 1) domain containing 2 WDR42A;WD repeat domain 42A DEAD (Asp-Glu-Ala-Asp) box polypeptide 41 DEAD (Asp-Glu-Ala-Asp) box polypeptide 42,DEAD (Asp-Glu-Ala-Asp) box helicase 42 DECR;2,4-dienoyl-CoA reductase 1, mitochondrial delhydrogenaze/reductase (SDR family) member 11 C20or135;Ala-Green (State 1) DIP2 disco-interacting protein 2 homolog 8 (Drosophila) DIRAS family, GTP binding RAS-Like 2 discs, large (Drosophila) homolog, subfamily 6, member 2 Dnal (Hsp40) homolog, subfamily 4, member 2 Dnal (Hsp40) homolog, subfamily 6, member 9 DNM KAALI117,DOPP1;KIAALI17,dopper family member 1 C20or188;HaRS2,chromosome 20 open reading frame 88,0-tyrosyl-1RNA deacylase 1 DRAMI 117,DOPP1;KIAALI17,dopper family member 1 C20or188;HaRS2,chromosome 20 open reading frame 88,0-tyrosyl-1RNA deacylase 1 DNM	cytochrome c oxidase subunit 7A2 like complexin 1 copine 2 carmiline palmitopitransferase 1A colony stimulating factor 1 cysteine and serine rich nuclear protein 3 catenin alpha 1 catenin alpha 1 catenin delta 2 copinal 2 cytochrome P450 family 27 subfamily A member 1 dishevelled associated activator of morphogenesis 2 dystroplycan 1 aspartyl-RRNA synthetase 2 dysbindin domain containing 2 DBB1 and CUL44 associated factor 8 DEAD-box helicase 41 DEAD-box helicase 42 2-2,4-dienoyl-CoAr reductase 1 deleta force delta 2 deleta 2 delta 3 delta 3 delta 3 deleta 3 delta 4 delta 4 delta 4 delta 4 delta 3 delta 4 de	sub-maximal isoform coverage due to non-overlapping transcript variants

EDIL3	NM 005711.3	EGF-like repeats and discoidin I-like domains 3	EGF like repeats and discoidin domains 3	
EFCAB14	NM_014774.2	KIAA0494;KIAA0494	EF-hand calcium binding domain 14	
EFEMP2		EGF-containing fibulin-like extracellular matrix protein 2,EGF containing fibulin like extracellular matrix protein 2	EGF containing fibulin extracellular matrix protein 2	
EFHD1	NM_025202.3	EF hand domain containing 1	EF-hand domain family member D1	
EHD3 ELOVL1		PAST3 elongation of very long chain fatty acids (FEN1/Elo2, SUR4/Elo3, yeast)-like 1	EH domain containing 3 ELOVL fatty acid elongase 1	
ELOVL7	NM_024930.1	ELOVL family member 7, elongation of long chain fatty acids (yeast)	ELOVL fatty acid elongase 7	
ENDOD1 ENO2	NM_015036.2 NM_001975.2	enolase 2 (gamma, neuronal)	endonuclease domain containing 1 enolase 2	
ENPP2 ENTPD3	NM_001040092.2	PDNP2 CD39L3	ectonucleotide pyrophosphatase/phosphodiesterase 2 ectonucleoside triphosphate diphosphohydrolase 3	
EP300	NM_001248.2 NM_001429.2	CD39L3	E1A binding protein p300	
EPAS1	NM_001430.3	TVDO1	endothelial PAS domain protein 1	
EPHA4 EPS8	NM_004438.3 NM_004447.5	TYRO1	EPH receptor A4 epidermal growth factor receptor pathway substrate 8	
ERI2	NM_001142725.1	EXOD1;exonuclease domain containing 1	ERI1 exoribonuclease family member 2	
ERMN ESAM	NM_138961.2	KIAA1189;KIAA1189,ermin, ERM-like protein	ermin endothelial cell adhesion molecule	
EVC EVI2A		Ellis van Creveld syndrome,Ellis van Creveld protein EVI2	EvC ciliary complex subunit 1 ecotropic viral integration site 2A	
EXOC1		SEC3L1;SEC3-like 1 (S. cerevisiae)	exocyst complex component 1	
EZR		VIL2;villin 2 (ezrin) FAXDC1,SPG35;fatty acid hydroxylase domain containing 1,spastic paraplegia 35	ezrin	
FA2H	NM_024306.2	(autosomal recessive)	fatty acid 2-hydroxylase	
FAM107B		C10orf45;chromosome 10 open reading frame 45,family with sequence similarity 107, member B	family with sequence similarity 107 member B	
FAM124A	NM_001242312.1	family with sequence similarity 124A	family with sequence similarity 124 member A	
FAM129B		C9orf88;chromosome 9 open reading frame 88,family with sequence similarity 129, member B	family with sequence similarity 129 member B	
		C11orf56;chromosome 11 open reading frame 56,family with sequence similarity 160,		
FAM160A2		member A2 C10orf38;chromosome 10 open reading frame 38,family with sequence similarity 171,	family with sequence similarity 160 member A2	
FAM171A1	NM_001010924.1	member A1	family with sequence similarity 171 member A1	
FAM189A2		C9orf61;chromosome 9 open reading frame 61,family with sequence similarity 189, member A2	family with sequence similarity 189 member A2	
		C4orf8;chromosome 4 open reading frame 8,family with sequence similarity 193,		
FAM193A		member A C10orf58,FAM213A;chromosome 10 open reading frame 58,family with sequence	family with sequence similarity 193 member A	
FAM213A	XM_011540265.2	similarity 213, member A	peroxiredoxin like 2A	
FAM49A FARSB		family with sequence similarity 49, member A FARSLB;phenylalanyl-tRNA synthetase-like, beta subunit	family with sequence similarity 49 member A phenylalanyl-tRNA synthetase subunit beta	
		FAT;FAT tumor suppressor (Drosophila) homolog,FAT tumor suppressor homolog 1		
FAT1		(Drosophila) C6orf168;chromosome 6 open reading frame 168,failed axon connections homolog	FAT atypical cadherin 1	
FAXC	NM_032511.2	(Drosophila), failed axon connections homolog	failed axon connections homolog, metaxin like GST domain containing	
FBXO2 FCER1G		OCP1;F-box only protein 2,organ of Corti protein 1 Fc fragment of IgE, high affinity I, receptor for; gamma polypeptide	F-box protein 2 Fc fragment of IgE receptor Ig	
	_	PLEKHC1; pleckstrin homology domain containing, family C (with FERM domain) member		
FERMT2 FIBP		1,fermitin family homolog 2 (Drosophila) fibroblast growth factor (acidic) intracellular binding protein	fermitin family member 2 FGF1 intracellular binding protein	
FKBP4		FK506-binding protein 4 (59kD),FK506 binding protein 4, 59kDa,FK506 binding protein 4 FLT;fms-related tyrosine kinase 1 (vascular endothelial growth factor/vascular	FKBP prolyl isomerase 4	
FLT1	NM_002019.4	permeability factor receptor),fms-related tyrosine kinase 1	fms related tyrosine kinase 1	
FMNL2 FN1	NM_052905.3 NM_212478.2	FHOD2;formin homology 2 domain containing 2,formin-like 2	formin like 2 fibronectin 1	
FOXN2		HTLF;human T-cell leukemia virus enhancer factor	forkhead box N2	
FOXN3	NM_005197.2	C14orf116,CHES1;chromosome 14 open reading frame 116,checkpoint suppressor 1	forkhead box N3	
FOXO1		FKHR,FOXO1A;forkhead homolog in rhabdomyosarcoma	forkhead box O1 FERM domain containing 4B	
FRMD4B FRMPD4	NM_015123.1 NM_014728.3	PDZK10,PDZD10;PDZ domain containing 10	FERM and PDZ domain containing 4	
FRYL FSTL1		KIAA0826;KIAA0826,furry homolog-like (Drosophila),FRY like follistatin-like 1	FRY like transcription coactivator follistatin like 1	
FUBP3		FBP3;far upstream element (FUSE) binding protein 3	far upstream element binding protein 3	
FURIN		PCSK3,FUR,PACE;paired basic amino acid cleaving enzyme (furin, membrane associated receptor protein),furin (paired basic amino acid cleaving enzyme)	furin, paired basic amino acid cleaving enzyme	
FXYD5	NM_014164.5	FXYD domain-containing ion transport regulator 5	FXYD domain containing ion transport regulator 5	
FYN GAB1	NM_002037.3 NM_002039.3	FYN oncogene related to SRC, FGR, YES	FYN proto-oncogene, Src family tyrosine kinase GRB2 associated binding protein 1	
GABARAPL1		GABA(A) receptor-associated protein like 1	GABA type A receptor associated protein like 1	
GABBR2	NM_005458.5	GPR51;G protein-coupled receptor 51,gamma-aminobutyric acid (GABA) B receptor, 2	gamma-aminobutyric acid type B receptor subunit 2	
GABRB3	NM_000814.5	gamma-aminobutyric acid (GABA) A receptor, beta 3	gamma-aminobutyric acid type A receptor beta3 subunit	
GABRD GABRG1		gamma-aminobutyric acid (GABA) A receptor, delta gamma-aminobutyric acid (GABA) A receptor, gamma 1	gamma-aminobutyric acid type A receptor delta subunit gamma-aminobutyric acid type A receptor gamma1 subunit	
GDAP1L1	NM_024034.3	ganglioside induced differentiation associated protein 1-like 1	ganglioside induced differentiation associated protein 1 like 1	
GFRA2	NM_001495.4	ODDD,GJAL;gap junction protein, alpha-like,gap junction protein, alpha 1, 43kDa	GDNF family receptor alpha 2	
GJA1	NM_000165.3	(connexin 43),gap junction protein, alpha 1, 43kDa	gap junction protein alpha 1	
		CMTX1,CMTX;gap junction protein, beta 1, 32kD (connexin 32, Charcot-Marie-Tooth neuropathy, X-linked),gap junction protein, beta 1, 32kDa (connexin 32, Charcot-Marie-		
		Tooth neuropathy, X-linked),gap junction protein, beta 1, 32kDa (connexin 32),gap		
GJB1 GLOD4		junction protein, beta 1, 32kDa C17orf25;chromosome 17 open reading frame 25	gap junction protein beta 1 glyoxalase domain containing 4	
GLT1D1	XM_011537956.2		glycosyltransferase 1 domain containing 1	
GLTP	NM_016433.3		glycolipid transfer protein	GLUD2 (NM_012084), GLUD1
GUID4/2	NM 0120012	GLUDDI glutamata dabudraganasa assuriasasa 1	distance dehidrogenes 2	(NM_001318902;NM_001318906;NM_005271;NM_001318900;NM_001318901;NM_
GLUD1/2 GNA12		GLUDP1;glutamate dehydrogenase pseudogene 1 guanine nucleotide binding protein (G protein) alpha 12	glutamate dehydrogenase 2 G protein subunit alpha 12	001318904;NM_001318905)
GNA13	NM_006572.4	guanine nucleotide binding protein (G protein), alpha 13	G protein subunit alpha 13	
GNAI2	NM_002070.2	GNAI2B; guanine nucleotide binding protein (G protein), alpha inhibiting activity polypeptide 2	G protein subunit alpha i2	
GNB5	NM_006578.3	guanine nucleotide binding protein (G protein), beta 5	G protein subunit beta 5	
GNG11 GNG12		guanine nucleotide binding protein (G protein), gamma 11 guanine nucleotide binding protein (G protein), gamma 12	G protein subunit gamma 11 G protein subunit gamma 12	
GNS	NM_002076.3		glucosamine (N-acetyl)-6-sulfatase	
GOLIM4		GOLPH4;golgi phosphoprotein 4 glutamic-oxaloacetic transaminase 1, soluble (aspartate aminotransferase 1),glutamic-	golgi integral membrane protein 4	
GOT1	NM_002079.2	oxaloacetic transaminase 1, soluble	glutamic-oxaloacetic transaminase 1	
GPC1 GPHN	NM_002081.2 NM_020806.4		glypican 1 gephyrin	
GPI GDP159	NM_000175.2	glucose phosphate isomerase	glucose-6-phosphate isomerase	
GPR158 GPR37		G protein-coupled receptor 37 (endothelin receptor type B-like)	G protein-coupled receptor 158 G protein-coupled receptor 37	
GPR62	NM_080865.2		G protein-coupled receptor 62	
		G protein-coupled receptor, family C, group 1, member B,G protein-coupled receptor,		
GPRC5B GRAMD2B		family C, group 5, member B,G protein-coupled receptor, class C, group 5, member B GRAMD3;GRAM domain containing 3	G protein-coupled receptor class C group 5 member B GRAM domain containing 2B	
GRIA3	NM_000828.4	GLUR3;glutamate receptor, ionotrophic, AMPA 3	glutamate ionotropic receptor AMPA type subunit 3	
GRN GSS	NM_002087.2 NM_000178.2		granulin precursor glutathione synthetase	
GSTZ1		glutathione transferase zeta 1	glutathione S-transferase zeta 1	
GTF2H3	NM_001516.4	general transcription factor IIH, polypeptide 3 (34kD subunit),general transcription factor IIH, polypeptide 3, 34kDa	general transcription factor IIH subunit 3	
GTPBP4	NM_012341.2		GTP binding protein 4	
GUCY1B1		GUC1B3,GUCY1B3;guanylate cyclase 1, soluble, beta 3,guanylate cyclase 1 soluble subunit beta	guanylate cyclase 1 soluble subunit beta 1	
H2AFZ	NM_002106.3	H2AZ;H2A histone family, member Z	H2A histone family member Z	
		hydroxyacyl-Coenzyme A dehydrogenase/3-ketoacyl-Coenzyme A thiolase/enoyl- Coenzyme A hydratase (trifunctional protein), beta subunit,hydroxyacyl-CoA		
		dehydrogenase/3-ketoacyl-CoA thiolase/enoyl-CoA hydratase (trifunctional protein),		
HADHB	NM_000183.2	beta subunit	hydroxyacyl-CoA dehydrogenase trifunctional multienzyme complex subunit beta	

NM_016217.2 NM 015052.4	headcase homolog (Drosophila)	hdc homolog, cell cycle regulator HECT, C2 and WW domain containing E3 ubiquitin protein ligase 1	
NM_022373.4		HERPUD family member 2	
NM_152419.2 NM_032593.2	TMEM76;transmembrane protein 76	heparan-alpha-glucosaminide N-acetyltransferase histidine triad nucleotide binding protein 2	
NM_005338.4	SNEST 2 SMADCA2-SWI/SNE related matrix associated actin dependent regulator of	huntingtin interacting protein 1	
	chromatin, subfamily a, member 3	helicase like transcription factor	
NM_001537.2		heat shock factor binding protein 1	
	FABGL;FabG (beta-ketoacyl-[acyl-carrier-protein] reductase, E coli) like (E. coli),hydroxysteroid (17-beta) dehydrogenase 8	hydroxysteroid 17-beta dehydrogenase 8	
	C9orf99;chromosome 9 open reading frame 99	hydroxysteroid dehydrogenase like 2	
NM 001017963.2		heat shock protein 90 alpha family class A member 1	
NM_005345.5	heat shock 70kD protein 1B,heat shock 70kDa protein 1B	heat shock protein family A (Hsp70) member 1B	HSPA1B (NM_005346), HSPA1A (NM_005345)
	heat shock 70kD protein 4,heat shock 70kDa protein 4 heat shock 70kD protein 4,heat shock 70kDa protein 4	heat shock protein family A (Hsp70) member 2 heat shock protein family A (Hsp70) member 4	
NM_014365.2	heat shock 27kDa protein 8,heat shock 22kDa protein 8	heat shock protein family B (small) member 8	
	BTKI;Bruton agammaglobulinemia tyrosine kinase inhibitor,inhibitor of Bruton		
NM_015525.2 NM_004968.3			
NN_004308.3	ALS2CR15,ALS2CR14;amyotrophic lateral sclerosis 2 (juvenile) chromosome region,	isiet ceii autoarugeri 1	
NM 138468.4	candidate 15,amyotrophic lateral sclerosis 2 (juvenile) chromosome region, candidate 14.islet cell autoantigen 1.69kDa-like	islet cell autoantigen 1 like	
NM_002168.2	isocitrate dehydrogenase 2 (NADP+), mitochondrial	isocitrate dehydrogenase (NADP(+)) 2, mitochondrial	
NR_046421.1	C9ort103;chromosome 9 open reading frame 103,idnK, gluconokinase homolog (E. coli),IDNK, gluconokinase	IDNK gluconokinase	
NA 001177701 2	RABL4;RAB, member of RAS oncogene family-like 4,intraflagellar transport 27 homolog	introfferelles transport 27	
NM_000177701.2	insulin-like growth factor 1 receptor	insulin like growth factor 1 receptor	
	insulin-like growth factor binding protein 5	insulin like growth factor binding protein 5	
	MRPS4,C15orf12;mitochondrial ribosomal protein S4,chromosome 15 open reading		
		IMP U3 small nucleolar ribonucleoprotein 3 impact RWD domain protein	
	inhibin, alpha	inhibin subunit alpha	
NM 001134224.1		inositol polyphosphate-4-phosphatase type I A	
NM_001567.2		inositol polyphosphate phosphatase like 1	
NM_000210.1	integrin, alpha 6 FNRB,MSK12,MDF2;integrin, beta 1 (fibronectin receptor, beta polypeptide, antigen	integrin subunit aipna 6	
	CD29 includes MDF2, MSK12)	integrin subunit beta 1	
NM_002214.2	integrin, beta 8	integrin subunit beta 8	
NM_002221.3 NM_001081461.1	inositol 1,4,5-trisphosphate 3-kinase B PTDSR:phosphatidylserine receptor jumonii domain containing 6	inositol-trisphosphate 3-kinase B	
NM_015158.2	ANKRD15;ankyrin repeat domain 15	KN motif and ankyrin repeat domains 1	
NM_147183.3		potassium voltage-gated channel interacting protein 4	PACRGL (NM_001258345;NM_001130727;NM_001330746)
	voltage gated KQT-like subfamily Q, member 5	potassium voltage-gated channel subfamily Q member 5	
NM_001136205.1		potassium channel tetramerization domain containing 1	
	domain containing 12	potassium channel tetramerization domain containing 12	
NM_014732.3	C11orf69,C11orf41;chromosome 11 open reading frame 69,chromosome 11 open	KIAA0513	
	reading frame 41	KIAA1549 like	
NM_001145206.1 NM_015254.3		kinesin family member 13B	
	SAX2;spastic ataxia 2 (autosomal recessive)	kinesin family member 1C	
NM_001134775.1		kinesin light chain 2	
	kelch-like 21 (Drosophila)	kelch like family member 21	
NM_001079522.1	kinectin 1 (kinesin receptor)	kinectin 1	
NM_006762.2	lysosomal multispanning membrane protein 5	lysosomal protein transmembrane 5	
NM 014572.2	LATS (large tumor suppressor, Drosophila) homolog 2,LATS, large tumor suppressor, homolog 2 (Drosophila)	large tumor suppressor kinase 2	
NM_002298.4	lymphocyte cytosolic protein 1 (L-plastin)	lymphocyte cytosolic protein 1	and manifest instance and a to a second and a second and a second and a second
NM_003667.2	GPR67,GPR49;G protein-coupled receptor 49	leucine rich repeat containing G protein-coupled receptor 5	sub-maximal isoform coverage due to non-overlapping transcript variants
NM_005779.2	lipoma HMGIC fusion partner-like 2	LHFPL tetraspan subfamily member 2	
NM_001031801.1		LIM domain kinase 2	
		LIM zinc finger domain containing 1	
		ligand of numb-protein X 1 LDL receptor related protein 10	
NM_002334.3	low density lipoprotein receptor-related protein 4	LDL receptor related protein 4	
NM_001199017.1 NM_001163926.1			
NM_012321.3		LSM4 homolog, U6 small nuclear RNA and mRNA degradation associated	
NM_001199216.1	GMA	myelin associated glycoprotein	
	mal, T-cell differentiation protein 2 (gene/pseudogene) MANA2;mannosidase, alpha, class 2A, member 1	mal, T cell differentiation protein 2 (gene/pseudogene) mannosidase alpha class 2A member 1	
NM_033141.2	MLK1	mitogen-activated protein kinase kinase kinase 9	
XM_006720013.1 NM_003980.3		mitogen-activated protein kinase kinase kinase kinase 5 microtubule associated protein 7	
NM_002748.2	PRKM6	mitogen-activated protein kinase 6	
XM_005265940.1 NM_004759.3	F INNIVIO	mitogen-activated protein kinase-activated protein kinase 2	
NM_016834.3	DDPAC,MAPTL OACT2: O-acyltransferase (membrane bound) domain containing 2	microtubule associated protein tau	
NM_002385.2		myelin basic protein	
NM_022132.4		methylcrotonoyl-CoA carboxylase 2	
	family apoptosis regulator	MCL1 apoptosis regulator, BCL2 family member	
NM_014623.2 NM_001024732.2	MEA;male-enhanced antigen	male-enhanced antigen 1 mitochondrial trans-2-enoyl-CoA reductase	
	THRAP2;thyroid hormone receptor associated protein 2,mediator complex subunit 13-		
NM_015335.4	like	mediator complex subunit 13 like	
NM_004229.3	CXorf4,CRSP2;cofactor required for Sp1 transcriptional activation, subunit 2, 150kDa	mediator complex subunit 14	
NM_001317770.1 NM_002397.3	IXL;intersex-like (Drosophila)	mediator complex subunit 29 myocyte enhancer factor 2C	
NM_033540.2	CINTerorid line fuering in payment 7 late infantile as 12.1	mitofusin 1	
AIA4 452770.2	CLN7;ceroid-lipofuscinosis, neuronal 7, late infantile, variant	major facilitator superfamily domain containing 8 microsomal glutathione S-transferase 3	
NM_152778.2 NM_004528.2		microtubule associated monooxygenase, calponin and LIM domain containing 2	
NM_004528.2 NM_001282663.1	manalancaphalic laukaancaphale-eth-with e-heastied		
NM_004528.2 NM_001282663.1	megalencephalic leukoencephalopathy with subcortical cysts 1 C2orf6,MOBK1B,MOBKL1B;chromosome 2 open reading frame 6,MOB1, Mps One	modulator of VRAC current 1	
NM_004528.2 NM_001282663.1 NM_015166.3 NM_018221.3		modulator of VRAC current 1 MOB kinase activator 1A	
NM_004528.2 NM_001282663.1 NM_015166.3 NM_018221.3 NR_003090.2 NM_001008228.2	C2orf6,MOBK1B,MOBK1B;chromosome 2 open reading frame 6,MOB1, Mps One Binder kinase activator-like 1B (yeast),MOB1 Mps One Binder homolog A (yeast)	modulator of VRAC current 1 MOB kinase activator 1A myelin associated oligodendrocyte basic protein myelin oligodendrocyte glycoprotein	
NM_004528.2 NM_001282663.1 NM_015166.3 NM_018221.3 NR_003090.2 NM_001008228.2 XM_005268731.1	C2orf6,MOBK1B,MOBKL1B;chromosome 2 open reading frame 6,MOB1, Mps One	modulator of VRAC current 1 MOB kinase activator 1A myelin associated oligodendrocyte basic protein	
	NM_152419_2 NM_005338.4 NM_139048_2 NM_005338.4 NM_139048_2 NM_001537.2 NM_001537.2 NM_001537.3 NM_001537.3 NM_001537.3 NM_001537.3 NM_002545.3 NM_005644.2 NM_005644.2 NM_0015525.2 NM_006644.2 NM_0015525.2 NM_006642.1 NM_015525.2 NM_006642.1 NM_015525.2 NM_0015525.2 NM_0011572.2 NM_0011572.3 NM_0011567.2 NM_0011567.2 NM_00115452.3 NM_0011567.2 NM_00115452.3 NM_0011552.2 NM_001152	NM 193642 SVE215-SMARCA3-SWI/SNF related, matrix associated, actin dependent regulator of chimal proteins of the common of the	

MSI2	VAA 011534304 1	museshi hamalaa 3 (Dassanhila)	museuki DNA hinding weekin 2
MSN	NM_002444.2	musashi homolog 2 (Drosophila)	musashi RNA binding protein 2 moesin
MTA3		metastasis associated gene family, member 3	metastasis associated 1 family member 3
MTF2	NM_001164391.1	,,	metal response element binding transcription factor 2
MTMR10	NM_017762.2		myotubularin related protein 10
MYH9	NM_002473.3	DFNA17;myosin, heavy polypeptide 9, non-muscle	myosin heavy chain 9
		myosin, light polypeptide, regulatory, non-sarcomeric (20kD),myosin, light chain 12A,	
MYL12A	NM_006471.3	regulatory, non-sarcomeric	myosin light chain 12A
1 m// CD	NA 004400530 4	myosin, light polypeptide 6B, alkali, smooth muscle and non-muscle,myosin, light chain	myosin light chain 68
MYL6B MYO10	NM_001199629.1 NM_012334.2	6B, alkali, smooth muscle and non-muscle	
MYO1C	NM_033375.4		myosin X myosin IC
MYO1E	NM 004998.2		myosin IE
	_		
MYO5A	NM_000259.1	MYH12;myosin VA (heavy polypeptide 12, myoxin),myosin VA (heavy chain 12, myoxin)	myosin VA
MYRF		C11orf9;chromosome 11 open reading frame 9	myelin regulatory factor
NAA80		NAT6;N-acetyltransferase 6	N(alpha)-acetyltransferase 80, NatH catalytic subunit
NAGA		N-acetylgalactosaminidase, alpha-	alpha-N-acetylgalactosaminidase
NAPB		N-ethylmaleimide-sensitive factor attachment protein, beta	NSF attachment protein beta neurocalcin delta
NCALD NCOA1	NM_001040624.1 NM_003743.4		neuroaum dera nudear receptor coactivator 1
NCOM	1111_003743.4	nudE nuclear distribution gene E homolog 1 (A. nidulans),nudE nuclear distribution E	naca receptor estatuto 2
NDE1	NM_001143979.1	homolog 1 (A. nidulans)	nudE neurodevelopment protein 1
NDRG1	NM_001135242.1		N-myc downstream regulated 1
		NADH dehydrogenase (ubiquinone) 1 alpha subcomplex, 2 (8kD, B8),NADH	
NDUFA2	NM_001185012.1	dehydrogenase (ubiquinone) 1 alpha subcomplex, 2, 8kDa	NADH:ubiquinone oxidoreductase subunit A2
		NADH dehydrogenase (ubiquinone) 1 alpha subcomplex, 5 (13kD, B13),NADH dehydrogenase (ubiquinone) 1 alpha subcomplex, 5, 13kDa,NADH dehydrogenase	
NDUFAS	NM_005000.2	(ubiquinone) 1 alpha subcomplex, 5	NADH:ubiquinone oxidoreductase subunit A5
		NADH dehydrogenase (ubiquinone) 1, alpha/beta subcomplex, 1 (8kD, SDAP),NADH	
NDUFAB1	NM_005003.2	dehydrogenase (ubiquinone) 1, alpha/beta subcomplex, 1, 8kDa	NADH:ubiquinone oxidoreductase subunit AB1
NECAP1	NM_015509.3		NECAP endocytosis associated 1
NEDD8	NM_006156.2		neural precursor cell expressed, developmentally down-regulated 8
NFE2L2	NM_006164.3	nuclear factor (erythroid-derived 2)-like 2,nuclear factor, erythroid 2-like 2	nuclear factor, erythroid 2 like 2
NFIA NFIR	NM_001134673.2	nuclear factor I/A nuclear factor I/B	nuclear factor I B
NFIB NHSL1	NM_005596.2 NM_001144060.1	nuclear factor I/B C6orf63;chromosome 6 open reading frame 63	nuclear factor I B NHS like 1
NKX6-2	NM 177400.2	NK6 transcription factor related, locus 2 (Drosophila)	NTS INC. 1 NTS INC. 2
NMNAT2	NM_015039.3	C1orf15;chromosome 1 open reading frame 15	nicotinamide nucleotide adenylyltransferase 2
NMRAL1		NmrA-like family domain containing 1	NmrA like redox sensor 1
NPC1	NM_000271.3	Niemann-Pick disease, type C1	NPC intracellular cholesterol transporter 1
NPC2	NM_006432.3	Niemann-Pick disease, type C2	NPC intracellular cholesterol transporter 2
NPTX2	NM_002523.1	neuronal pentraxin II	neuronal pentraxin 2
NRBP2	NM_178564.2		nuclear receptor binding protein 2
NRXN3		C14orf60; chromosome 14 open reading frame 60	neurexin 3
NSF		N-ethylmaleimide-sensitive factor,N-ethylmaleimide sensitive factor	N-ethylmaleimide sensitive factor, vesicle fusing ATPase
NTRK2 NUCKS1	NM_001007097.1 NM_022731.3	neurotrophic tyrosine kinase, receptor, type 2	neurotrophic receptor tyrosine kinase 2 nuclear casein kinase and cyclin dependent kinase substrate 1
NOCKSI	NW_022731.3	CPSF5;cleavage and polyadenylation specific factor 5, 25 kDa,cleavage and	nated to 211 who year dependent who 2 to 3 to 12
		polyadenylation specific factor 5, 25 kD subunit,nudix (nucleoside diphosphate linked	
NUDT21	NM_007006.2	moiety X)-type motif 21	nudix hydrolase 21
NUDT9	NM_001248011.1	nudix (nucleoside diphosphate linked moiety X)-type motif 9	nudix hydrolase 9
		nuclear fragile X mental retardation protein interacting protein 2,NUFIP2, FMR1	
NUFIP2	NM_020772.2	interacting protein 2	nuclear FMR1 interacting protein 2
OGFOD3	NM_024648.2	C17orf101; chromosome 17 open reading frame 101,2-oxoglutarate and iron-dependent oxygenase domain containing 3	2-oxoglutarate and iron dependent oxygenase domain containing 3
OLFM3	NM_058170.3	oxygenase domain containing 5	z-oxograda ate and non dependent oxygenase domain containing so offactomedia 3
OPALIN		TMEM10;transmembrane protein 10	oligodendrocytic myelin paranodal and inner loop protein
OPCML	NM_001012393.1		opioid binding protein/cell adhesion molecule like
		ORC3L; origin recognition complex, subunit 3 (yeast homolog)-like, origin recognition	
		complex, subunit 3-like (yeast), origin recognition complex, subunit 3 honolog	
ORC3	NM_181837.1	(yeast),origin recognition complex, subunit 3	origin recognition complex subunit 3
OTUD4	NM_017493.6	OTU domain containing 4	OTU deubiquitinase 4
OTUD7B	NM_020205.3	ZA20D1;zinc finger, A20 domain containing 1,OTU domain containing 7B	OTU deubiquitinase 7B
		ZA20D1;zinc finger, A20 domain containing 1,OTU domain containing 7B peptidyl arginine deiminase, type II	
OTUD7B PADI2	NM_020205.3 NM_007365.2	ZA20D1;zinc finger, A20 domain containing 1,0TU domain containing 7B peptidyl arginine deiminase, type II p21/Cdc42/Rac1-activated kinase 1 (yeast Ste20-related),p21/Cdc42/Rac1-activated	OTU deubiquitinase 78 peptidyl arginine deiminase 2
OTUD7B	NM_020205.3 NM_007365.2 NM_002576.3	ZA20D1;inc finger, A20 domain containing 1,0TU domain containing 78 peeptidyl arginine deiminase, type II p21/Cdd42/Rac1-activated kinase 1 (yeast Ste20-related),p21/Cdd42/Rac1-activated kinase 1 (STE20 homolog, yeast),p22 protein (Cdd42/Rac1-activated kinase 1 kinase 1 (STE20 homolog, yeast),p22 protein (Cdd42/Rac1-activated kinase 3 kinase 4),p21 (STE20 homolog), yeast),p21 (STE20 homolog), yeast),p22 (STE20 homolog), yeast),p23 (STE20 homolog),p23 (STE20 homolog),p23 (STE20 homolog),p24 (STE20 homolog),p24 (STE20 homolog),p25 (STE20 homo	OTU deubiquitinase 7B
OTUD7B PADI2	NM_020205.3 NM_007365.2 NM_002576.3	ZA2001;rinc finger, A20 domain containing 1,0TU domain containing 78 peptibly arginine deliminase, type II p2/L/dcd/Ra2-Lactivated kinase 1 (yeast Ste20-related),p21/L/dcd/Ra2-Lactivated kinase 1 (STE20 homolog, weast),p21 protein (Cddc2/Rac)-activated kinase 1 MRX30,MRX47,mental retardation, X-linked 47,p21 (CDKN1A)-activated kinase 3,p21 protein (Cddc2/Rac)-activated kinase 3,p21 protein (Cddc2/Rac)-activated kinase 3	OTU deubiquitinase 78 peptidyl arginine deiminase 2
OTUD7B PADI2 PAK1 PAK3	NM_020205.3 NM_007365.2 NM_002576.3 NM_001128172.2	A2001_inc finger, A20 domain containing 1,0TU domain containing 78 peptidyl arprinine detiminase, type ill p21/Cdo42/Rac1-activated innase 1 (ST20) homolog, vesst),p21 protein (Cdc42/Rac1-activated kinase 1 (ST20) homolog, vesst),p21 protein (Cdc42/Rac1-activated kinase 3 (MRSQ),MRS47-material retardation, X-linked 47p.21 (CMCNIA)-activated kinase 3,p21 protein (Cdc42/Rac1-activated kinase 3 protein	OTU deublquitnase 78 peptidyl arginine deiminase 2 p21 (RAC1) activated kinase 1 p21 (RAC1) activated kinase 3
OTUD7B PADI2 PAK1 PAK3 PARD3	NM_020205.3 NM_007365.2 NM_002576.3 NM_001128172.2 NM_019619.2	A2A0D1;inc finger, A20 domain containing 1,0TU domain containing 78 peptidyl arginine deiminase, type II p21/dod47/Rac1-activated kinase 1 (yeast Ste20-related),p21/cdod42/Rac1-activated kinase 1 (STE20 homolog, yeast),p21 protein (cdod2/Rac)-activated kinase 1 MRSQ3,MRAZfmenal retardation, 3,1inked 47,p21 (CDKN1A)-activated kinase 3,p21 protein (Cdod2/Rac)-activated kinase 3 par-3 (partitioning defective 3, Celegans) homolog,par-3 partitioning defective 3 homolog (C. elegans)	OTU deukiquitinase 78 peptidyl arginine deiminase 2 p21 (RAC1) activated kinase 1 p21 (RAC1) activated kinase 3 par-3 family cell polarity regulator
OTUD7B PAD12 PAK1 PAK3 PARD3 PARL	NM_020205.3 NM_007365.2 NM_002576.3 NM_001128172.2 NM_019619.2 NM_001037639.1	A2001_inc finger, A20 domain containing 1,0TU domain containing 78 peptidyl arprinine detiminase, type ill p21/Cdo42/Rac1-activated innase 1 (ST20) homolog, vesst),p21 protein (Cdc42/Rac1-activated kinase 1 (ST20) homolog, vesst),p21 protein (Cdc42/Rac1-activated kinase 3 (MRSQ),MRS47-material retardation, X-linked 47p.21 (CMCNIA)-activated kinase 3,p21 protein (Cdc42/Rac1-activated kinase 3 protein	OTU deublquitinase 78 peptidyl arginine deiminase 2 p21 (RAC1) activated kinase 1 p21 (RAC1) activated kinase 3 par-3 family cell polarity regulator presenilin associated rhombold like
OTUD7B PADI2 PAK1 PAK3 PARD3	NM_020205.3 NM_007365.2 NM_002576.3 NM_001128172.2 NM_019619.2	ZA20D1;inc finger, A20 domain containing 1,0TU domain containing 78 peeptidyl arginine deiminase, type II p21/Cdd42/Rac1-activated kinase 1 (yeast Ste20-related),p21/Cdd42/Rac1-activated kinase 1 (STE20 homolog, veast),p22 protein (Cdd42/Rac)-activated kinase 1 MRX30,MRX47 metanl etardation, Xinked 47,p21 (CDKN1A)-activated kinase 3,p21 protein (Cdd42/Rac)-activated kinase 3 para 3 (partitioning defective 3, C. elegans) homolog,par-3 partitioning defective 3 homolog (C. elegans) PSARL:presenilin associated, rhombold-like	OTU deukiquitinase 78 peptidyl arginine deiminase 2 p21 (RAC1) activated kinase 1 p21 (RAC1) activated kinase 3 par-3 family cell polarity regulator
OTUD7B PADI2 PAK1 PAK3 PARD3 PARL PARM1	NM_020205.3 NM_007365.2 NM_002576.3 NM_001128172.2 NM_019619.2 NM_001037639.1 NM_015393.3	A2001_inc finger, A20 domain containing 1,0TU domain containing 78 peptidyl arginine derimase, hype II p21/Cdc42/Rec1-activated kinase 1 (yeast Ste20-related),p21/Cdc42/Rec1-activated kinase 1 (SE20 homolog, yeast),p21 protein (Cdc42/Rec1)-activated kinase 1 (SE20 homolog, yeast),p21 protein (Cdc42/Rec1)-activated kinase 3 protein (Cdc42/Rec1)-activated kinase 3,p21 protein (Cdc42/Rec1)-activated kinase 3,p21 protein (Cdc42/Rec1)-activated kinase 3,p21 protein (Cdc42/Rec1)-activated kinase 3 homolog (C. elegans) formolog (C. elegans) FSRAL presenilia associated, rhomboid-like pre-B-cell leukemia transcription factor interacting protein 1,pre-B-cell leukemia	OTU deublquitinase 78 peptidyl arginine deiminase 2 p21 (RAC1) activated kinase 1 p21 (RAC1) activated kinase 3 pa-3 family cell polarity regulator presenilin associated rhombold like prostate androgen-regulated mucin-like protein 1
OTUD7B PAD12 PAK1 PAK3 PARD3 PARL	NM_020205.3 NM_007365.2 NM_002576.3 NM_001128172.2 NM_019619.2 NM_001037639.1 NM_015393.3 NM_020524.2	ZA20D1;inc finger, A20 domain containing 1,0TU domain containing 78 peeptidyl arginine deiminase, type II p21/Cdd42/Rac1-activated kinase 1 (yeast Ste20-related),p21/Cdd42/Rac1-activated kinase 1 (STE20 homolog, veast),p22 protein (Cdd42/Rac)-activated kinase 1 MRX30,MRX47 metanl etardation, Xinked 47,p21 (CDKN1A)-activated kinase 3,p21 protein (Cdd42/Rac)-activated kinase 3 para 3 (partitioning defective 3, C. elegans) homolog,par-3 partitioning defective 3 homolog (C. elegans) PSARL:presenilin associated, rhombold-like	OTU debiquitinase 78 peptidyl arginine deiminase 2 p21 (RAC1) activated kinase 1 p21 (RAC1) activated kinase 3 par-3 family cell polarity regulator presenilin associated rhomboid like prostate androgen-regulated mucin-like protein 1 PBX homeobox interacting protein 1
OTUD7B PADI2 PAK1 PAK3 PARD3 PARL PARM1 PBXIP1	NM_020205.3 NM_007365.2 NM_002576.3 NM_001128172.2 NM_019619.2 NM_001037639.1 NM_015393.3	ZA20D1;inc finger, A20 domain containing 1,0TU domain containing 78 peeptidyl arginine deiminase, type II p21/Cdd2/Rac1-activated kinase 1 (yeast Ste20-related),p21/Cdd2/Rac1-activated kinase 1 (STE20) homolog, yeast1,p21 protein (Cdd2/Rac1-activated kinase 3 kinase 3 para 1 (partitioning defective 3, Celegans) homolog, par-3 partitioning defective 3 homolog (C. elegans) PSARL:presentilin associated, rhombold-like pre-8-cell leukemia transcription factor interacting protein 1,pre-8-cell leukemia homobox interacting protein 1	OTU deublquitinase 78 peptidyl arginine deiminase 2 p21 (RAC1) activated kinase 1 p21 (RAC1) activated kinase 3 pa-3 family cell polarity regulator presenilin associated rhombold like prostate androgen-regulated mucin-like protein 1
OTUD7B PADI2 PAK1 PAK3 PARD3 PARL PARM1 PBXIP1 PCBP4 PCCM9 PCSK2	NM_020205.3 NM_007365.2 NM_002576.3 NM_001128172.2 NM_019619.2 NM_0137639.1 NM_015393.3 NM_020524.2 NM_020418.2 NM_020418.2 NM_020403.3 NM_02594.2	A2001_inc finger, A20 domain containing 1,0TU domain containing 78 peptidyl arginine derimase, type III p21/Cdc42/Rec1-activated kinase 1 (yeast 5te20-related),p21/Cdc42/Rec1-activated kinase 1 (TEX) bomology easty),p21 protein (cdc2/Red)-activated kinase 1 IMRX30,MRX47_mental retardation, X-linked 47,p21 (CDKN1A)-activated kinase 3 protein (cdc2/Red)-activated kinase 3,p21 protein (cdc2/Red)-activated kinase 3 homolog (C. elegans) flower of the control of the contro	OTU deubiquitinae 78 peptidyl arginine deiminase 2 p21 (RAC1) activated kinase 1 p21 (RAC1) activated kinase 3 par-3 family cell polarity regulator preseniin associated rhomboid like protein 1 PBX homeobox interacting protein 1 protocated mucin-like protein 1 protocated and protein 4 protocated ending protein 4 protocated ending protein 4 protocated ending protein 4 protocated ending protein 4
OTUD7B PADI2 PAK1 PAK3 PARD3 PARL PARM1 PBXIP1 PCBP4 PCDH9 PCSK2 PCSK6	NM_020205.3 NM_007365.2 NM_002576.3 NM_001128172.2 NM_00187839.1 NM_015393.3 NM_02544.2 NM_020418.2 NM_020403.3 NM_02594.2 NM_02594.2 NM_02594.2	ZA2001_inc finger, A20 domain containing 1,0TU domain containing 78 peeptidyl arginine deiminase, type III p21/cdot2/Rac1-activated kinase 1 (yeast Ste20-related),p21/cdot2/Rac1-activated kinase 1 (STE20 homolog, veast),p22 protein (Cdot2/Rac1-activated kinase 3) (STE20 homolog, veast),p22 protein (Cdot2/Rac1-activated kinase 3) protein (Cdot2/Rac1-activated kinase 3,p21 protein (Cdot2/Rac1)-activated kinase 3,p21 protein (Cdot2/Rac1)-activated kinase 3,p21 protein (Cdot2/Rac1)-activated kinase 3 homolog (C. elegans) homolog,par-3 partitioning defective 3 homolog (C. elegans) PSRLtpresentilin associated, rhombold-like pre-8-cell leukemia transcription factor interacting protein 1,pre-8-cell leukemia homedox interacting protein 1 poly(rQ-binding protein 4	OTU deubiquitinase 78 peptidyl arginine deiminase 2 p21 (RAC1) activated kinase 1 p21 (RAC1) activated kinase 3 p21 (RAC1) activated kinase 3 p21 (RAC1) activated kinase 3 p23 famly call pointry regulator presenilin associated rhomboid like prostate androgen-regulated mucin-like protein 1 P8X homeobox interacting protein 1 poly(rC) binding protein 4 protocandering 9 proprotein convertase subtlisin/kexin type 2 proprotein convertase subtlisin/kexin type 6
OTUD78 PADI2 PAK1 PAK3 PAR03 PARL PARM1 PBXIP1 PCBP4 PCOH9 PCSK2 PCVOXIL	NM_020205.3 NM_007365.2 NM_001128172.2 NM_019619.2 NM_01037693.1 NM_020524.2 NM_020418.2 NM_020403.3 NM_020594.2 NM_002590.3	A2001_inc finger, A20 domain containing 1,0TU domain containing 78 peptidyl arginine derimase, type III p21/Cdc42/Rec1-activated kinase 1 (yeast 5te20-related),p21/Cdc42/Rec1-activated kinase 1 (TEX) bomology easty),p12 protein (cdc2/Red)-activated kinase 1 IMRX30,MRX47_mental retardation, X-linked 47,p21 (CDKN1A)-activated kinase 3 protein (cdc2/Red)-activated kinase 3,p21 protein (cdc2/Red)-activated kinase 3 homolog (C. elegans) feetive 3. Celegans) homolog par-3 partitioning defective 3 homolog (C. elegans) FSRALpresenilin asociated, rhomboid-like pre-8-cell leukemia transcription factor interacting protein 1,pre-8-cell leukemia homeobox interacting protein 1 protein 4 NEC2	OTU deubiquitinae 78 peptidyl arginine deiminase 2 p21 (RAC1) activated kinase 1 p21 (RAC1) activated kinase 3 p21 (RAC1) activated kinase 3 par-3 family cell polarity regulator preseniin associated rhomboid like prostate androgen-regulated mucin-like protein 1 PBX homeobox interacting protein 1 protocadherin 9 proprotein convertase subtilisin/kexin type 2 proprotein convertase subtilisin/kexin type 6 prenyloystein exidase 1 like
OTUD78 PADI2 PAK1 PAK3 PARD3 PARR1 PARM1 PBXIP1 PCBP4 PCDP4 PCDH9 PCSK2 PCSK6 PCVOXIL PDCD6	NM_020205_3 NM_007365.2 NM_00128172.2 NM_01128172.2 NM_0137639.3 NM_00137639.1 NM_020524_2 NM_020524_2 NM_020403.3 NM_02594_3 NM_02594_3 NM_02594_3 NM_024028.3 NM_02594_3	A2001_inc finger, A20 domain containing 1,0TU domain containing 78 peptidyl arpinine detiminase, type ill 92.0TU domain containing 78 peptidyl arpinine detiminase, type ill 92.0TU dota/Rac1-activated kinase 1 (yeast Ste2-delated),p21/Cdot2/Rac1-activated kinase 1 (STE20 homolog, vesst),p22 protein (Cdot2/Rac1-activated kinase 3 protein (Cdot2/Rac1-activated kinase 3 p.21 homolog (C. elegans) homolog, par-3 partitioning defective 3 homolog (C. elegans) PSRALtpresenilia asociated, rhombold-like pre-B-cell leukemia transcription factor interacting protein 1,pre-B-cell leukemia homeobox interacting protein 1 poly(rC)-binding protein 4 NEC2 PACE4,paired basic amino acid cleaving system 4	OTU deubiquitinase 78 peptidyl arginine deiminase 2 p21 (RAC1) activated kinase 1 p21 (RAC1) activated kinase 3 p22 (RAC1) activated kinase 3 p23 (RAC1) activated kinase 3 p24 (RAC1) activated kinase 3 prosprate and organized point in page 1 p25 (RAC1) activated kinase 1 p26 (RAC1) activated kinase 1 p27 (RAC1) activated kinase 1 p28 (RAC1) activated kinase 1 p28 (RAC1) activated kinase 1 p28 (RAC1) activated kinase 1 p29 (RAC1) activated kinase 1 p20 (RAC1) activated kinase 1 p20 (RAC1) activated kinase 1 p21 (RAC1) activated kinase 1 p21 (RAC1) activated kinase 1 p22 (RAC1) activated kinase 1 p23 (RAC1) activated kinase 1 p24 (RAC1) activated kinase 1 p25 (RAC1) activated kinase 1 p26 (RAC1) activated kinase 1 p27 (RAC1) activated kinase 1 p28 (RAC1) activated kinase 1 p28 (RAC1) activated kinase 1 p29
OTUD78 PADI2 PAK1 PAK3 PAR03 PARL PARM1 PBXIP1 PCBP4 PCOH9 PCSK2 PCVOXIL	NM_020205.3 NM_007365.2 NM_001128172.2 NM_019619.2 NM_01037693.1 NM_020524.2 NM_020418.2 NM_020403.3 NM_020594.2 NM_002590.3	A2001_inc finger, A20 domain containing 1,0TU domain containing 78 peptidyl arginine derimase, type III p21/Cdc42/Rec1-activated kinase 1 (yeast 5te20-related),p21/Cdc42/Rec1-activated kinase 1 (TEX) bomology easty),p12 protein (cdc2/Red)-activated kinase 1 IMRX30,MRX47_mental retardation, X-linked 47,p21 (CDKN1A)-activated kinase 3 protein (cdc2/Red)-activated kinase 3,p21 protein (cdc2/Red)-activated kinase 3 homolog (C. elegans) feetive 3. Celegans) homolog par-3 partitioning defective 3 homolog (C. elegans) FSRALpresenilin asociated, rhomboid-like pre-8-cell leukemia transcription factor interacting protein 1,pre-8-cell leukemia homeobox interacting protein 1 protein 4 NEC2	OTU deubiquitinae 78 peptidyl arginine deiminase 2 p21 (RAC1) activated kinase 1 p21 (RAC1) activated kinase 3 p21 (RAC1) activated kinase 3 par-3 family cell polarity regulator preseniin associated rhomboid like prostate androgen-regulated mucin-like protein 1 PBX homeobox interacting protein 1 protocadherin 9 proprotein convertase subtilisin/kexin type 2 proprotein convertase subtilisin/kexin type 6 prenyloystein exidase 1 like
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OTUD78 PADI2 PAK1 PAK3 PARD3 PARRD PARRL PARM1 PESM1P PCSM2 PCSM6 PCVOX1L PDCC66 PDE1A PDE1B PDE1C	NM_00205.3 NM_007365.2 NM_001576.3 NM_001128172.2 NM_01128172.2 NM_015393.3 NM_0020524.2 NM_020403.3 NM_002540.2 NM_002402.3 NM_0025703.3 NM_0025703.3 NM_003593.2 NM_003593.3 NM_003593.3 NM_003593.3 NM_003593.3 NM_003593.3 NM_003593.3 NM_003593.3 NM_003593.3 NM_003593.3 NM_005193.3 NM_005193.3 NM_005193.3 NM_005193.3 NM_005193.3	A2A001_inc finger, A20 domain containing 1,0TU domain containing 78 peoptidyl arginine derimase, type III p21/Cdc42/Rec1-activated kinase 1 (yeast Ste20-related),p21/Cdc42/Rec1-activated kinase 1 (Ste20 homology seast),p21 protein (cdc24/Rec1)-activated kinase 1 HMX30,MR847:mental retardation, X-linked 47,p21 (CDKN1A)-activated kinase 1 MX30,MR847:mental retardation, X-linked 47,p21 (CDKN1A)-activated kinase 3,p21 protein (Cdc42/Rec1)-activated kinase 3 par-3 (partitioning defective 3 homolog,par-3 partitioning defective 3 homolog,par-4 partitioning defective 3 homolog,par-4 partitioning defective 3 homolog,par-4 partitioning defective 3 homolog,par-4 partitioning defective 3 homolog,pa	OTU deublquitinase 78 peptidyl arginine deiminase 2 p21 (RAC1) activated kinase 1 p21 (RAC1) activated kinase 3 p21 (RAC1) activated kinase 3 p21 (RAC1) activated kinase 3 p22 (RAC1) activated kinase 3 p23 (RAC1) activated kinase 3 p24 (RAC1) activated kinase 3 p25 (RAC1) activated kinase 3 p26 (RAC1) activated kinase 3 prospeniin associated rhomboid like protein 1 prospeciate androgen-regulated mucin-like protein 1 protein activated mucin-like protein 1 protein activated mucin-like protein 1 protein convertate subtilisin/kexin type 2 proprotein convertate subtilisin/kexin type 2 programmed cell death 6 phosphodiesterase 1A phosphodiesterase 1A phosphodiesterase 1B
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OTUDYB PADI2 PAKI PAKI PAKI PARO3 PARI PARO3 PARI PARO3 PARI PARO4 PARO5 PARI PARO5 PARI PARO5 PARI PARO5 PARI PARO5 PARI PARO5 POEB4 POEB4 POEB5 POES6	NM_002053. NM_0012872.2 NM_001128172.2 NM_001128172.2 NM_001037639.1 NM_0115393.3 NM_002542.2 NM_002542.2 NM_002542.2 NM_002543.2 NM_002591.3 NM_001393.3 NM_002591.3 NM_001393.3 NM_00140333.3 NM_00140333.3 NM_00140349.3 NM_00140349.3 NM_00140349.3 NM_00140349.3 NM_0015993.3 NM_003052.3 NM_003093.3	A2001_inc finger, A20 domain containing 1,0TU domain containing 78 peptidyl arginine derimase, type II p.21/Cdc42/Rec1-activated kinase 1 (Yeast Ste20-related),p.21/Cdc42/Rec1-activated kinase 1 (Yeast Ste20-activated kinase 1 (Yeast Ste20-activated kinase 1 (Yeast Ste20-activated kinase 1 yeast Ste20-activated kinase 3 p.21 protoin (Cdc42/Rec1-activated kinase 3 p.21 protoin (Yeast Ste20-activated kinase 3 p.21 p.21 p.21 p.21 p.21 p.21 p.21 p.21	OTU deubjultinase 78 peptidyl agrime deminase 2 p21 (RAC1) activated kinase 3 par-3 family cell polarity regulator presentia associated rhombod sike protein ergulated much like protein 1 pytotic and protein 4 protectablemin 9 protein and protein 4 protectablemin 9 protein erwertase subtilisin/kexin type 2 proprotein convertase subtilisin/kexin type 2 proprotein convertase subtilisin/kexin type 2 proprotein convertase subtilisin/kexin type 6 programmed cell death 6 phosphodiesterase subtilisin/kexin type 6 proprodienterase 12 phosphodiesterase 12 phosphodiesterase 12 phosphodiesterase 13 phosphodiesterase 14 protectablemin 9 protectablemin 9 protectablemin 9 protectablemin 9 protectablemin 9 protein device subtilisin/kexin type 6 protectablemin 9 protec

		protein phosphatase 3 (formerly 2B), regulatory subunit B (19kD), alpha isoform (calcineurin B, type I),protein phosphatase 3 (formerly 2B), regulatory subunit B, 19kDa,	
PPP3R1	NM 000945.3	alpha isoform (calcineurin B, type I),protein phosphatase 3 (formerly 2B), regulatory subunit B, alpha isoform,protein phosphatase 3, regulatory subunit B, alpha	protein phosphatase 3 regulatory subunit B, alpha
PPP4R2	NM_174907.2	protein phosphatase 4, regulatory subunit 2	protein phosphatase 4 regulatory subunit 2
PRELP PREX1	NM_002725.3 NM_020820.3	proline arginine-rich end leucine-rich repeat protein phosphatidylinositol-3,4,5-trisphosphate-dependent Rac exchange factor 1	proline and arginine rich end leucine rich repeat protein phosphatidylinositol-3,4,5-trisphosphate dependent Rac exchange factor 1
		DEPDC2;DEP domain containing 2,phosphatidylinositol-3,4,5-trisphosphate-dependent	
PREX2 PRICKLE1	NM_024870.2 NM_153026.1	Rac exchange factor 2 prickle-like 1 (Drosophila),prickle homolog 1 (Drosophila)	phosphatidylinositol-3,4,5-trisphosphate dependent Rac exchange factor 2 prickle planar cell polarity protein 1
PRKAG1	NM_002733.3	protein kinase, AMP-activated, gamma 1 non-catalytic subunit protein kinase, cAMP-dependent, regulatory, type I, beta,protein kinase, cAMP-	protein kinase AMP-activated non-catalytic subunit gamma 1
PRKAR1B		dependent, regulatory subunit type I beta	protein kinase cAMP-dependent type I regulatory subunit beta
PRKCA PRKCB	NM_002737.2 NM_212535.1	PKCA;protein kinase C, alpha PRKCB2,PKCB,PRKCB1;protein kinase C, beta 1,protein kinase C, beta	protein kinase C alpha protein kinase C beta
PRKCQ PRKD3	NM_006257.2	protein kinase C, theta PRKCN; protein kinase C, nu	protein kinase C theta protein kinase D3
	NM_005813.3	HRMT1L2;HMT1 (hnRNP methyltransferase, S. cerevisiae)-like 2,HMT1 hnRNP	
PRMT1 PROS1	NM_001536.4 NM_000313.1	methyltransferase-like 2 (S. cerevisiae) PROS;protein S (alpha)	protein arginine methyltransferase 1 protein S
PRR18	NM_175922.3	proline rich region 18	proline rich 18
PRR5L PSEN1	NM_024841.3 NM_000021.2	AD3;Alzheimer disease 3	proline rich 5 like presenilin 1
PSMA4 PSMA5	NM_002789.3 NM_002790.2	proteasome (prosome, macropain) subunit, alpha type, 4 proteasome (prosome, macropain) subunit, alpha type, 5	proteasome subunit alpha 4 proteasome subunit alpha 5
PSMB2	NM_002794.3	proteasome (prosome, macropain) subunit, beta type, 2	proteasome subunit beta 2
PSMC1 PSMC6	NM_002802.2 NM_002806.3	proteasome (prosome, macropain) 26S subunit, ATPase, 1 proteasome (prosome, macropain) 26S subunit, ATPase, 6	proteasome 26S subunit, ATPase 1 proteasome 26S subunit, ATPase 6
PSMD8	NM_002812.4	proteasome (prosome, macropain) 265 subunit, non-ATPase, 8	proteasome 26S subunit, non-ATPase 8
PSMG1	NM_203433.1	DSCR2;Down syndrome critical region gene 2,proteasome (prosome, macropain) assembly chaperone 1	proteasome assembly chaperone 1
PTBP1	NM_175847.2	PTB;polypyrimidine tract binding protein (heterogeneous nuclear ribonucleoprotein I)	polypyrimidine tract binding protein 1
PTP4A2	NM_080392.2	PTP4A;protein tyrosine phosphatase type IVA, member 2	protein tyrosine phosphatase 4A2
PTPN5 PTPRN	NM_001039970.1 NM_001199763.1	protein tyrosine phosphatase, non-receptor type 5 (striatum-enriched)	protein tyrosine phosphatase non-receptor type 5 protein tyrosine phosphatase receptor type N
PTTG1IP PVALB	NM_004339.3 NM_002854.2	C21orf3,C21orf1;pituitary tumor-transforming 1 interacting protein	PTTG1 interacting protein parvalbumin
PYCR3	NM_023078.2	PYCRL;pyrroline-5-carboxylate reductase-like	pyrroline-5-carboxylate reductase 3
QDPR QKI	NM_000320.2 NM_006775.2	quaking homolog, KH domain RNA binding (mouse)	quinoid dihydropteridine reductase QKI, KH domain containing RNA binding
RAB13	NM_002870.3	and the state of t	RAB13, member RAS oncogene family
RAB27B RAB31	NM_004163.4 NM_006868.3		RAB27B, member RAS oncogene family RAB31, member RAS oncogene family
RAB3A	NM_002866.4		RAB3A, member RAS oncogene family
RAB3C RAB6B	NM_138453.3 NM 016577.3		RAB3C, member RAS oncogene family RAB6B, member RAS oncogene family
RAN	NM_006325.3		RAN, member RAS oncogene family
RANBP1 RASAL2	NM_002882.2 NM_004841.3		RAN binding protein 1 RAS protein activator like 2
RASGRP3	NM_015376.2	RAS guanyl releasing protein 3 (calcium and DAG-regulated) OSRC;osteosarcoma,retinoblastoma 1	RAS guanyl releasing protein 3
RB1	NM_000321.1	RBM9;RNA binding motif protein 9,RNA binding protein, fox-1 homolog (C. elegans)	RB transcriptional corepressor 1
RBFOX2 RBM45	NM_001082579.1 NM 152945.2	2,RNA binding protein, fox-1 homolog 2	RNA binding fox-1 homolog 2 RNA binding motif protein 45
RBM48	NM_032120.2	C7orf64;chromosome 7 open reading frame 64	RNA binding motif protein 48
RCC1 RDX	NM_001269.4 NM_001260493.1	CHC1;chromosome condensation 1 DFNB24;deafness, autosomal recessive 24	regulator of chromosome condensation 1 radixin
REEP1	NM_022912.2	C2orf23;chromosome 2 open reading frame 23	receptor accessory protein 1
REEP3 RELL1	NM_001001330.2 NM_001085399.1	C10orf74;chromosome 10 open reading frame 74 RELT-like 1	receptor accessory protein 3 RELT like 1
REPS1	NM_001128617.2		RALBP1 associated Eps domain containing 1
RFX4	NM_213594.1	regulatory factor X, 4 (influences HLA class II expression) SCZD9;regulator of G-protein signalling 4,schizophrenia disorder 9,regulator of G-	regulatory factor X4
RGS4	NM_005613.3	protein signaling 4	regulator of G protein signaling 4
RGS7	NM_002924.2	regulator of G-protein signalling 7,regulator of G-protein signaling 7 regulator of G-protein signalling 7 binding protein,regulator of G-protein signalling 7	regulator of G protein signaling 7
RGS7BP RHOBTB3	NM_001029875.2 NM_014899.3	binding protein Rho-related BTB domain containing 3	regulator of G protein signaling 7 binding protein Rho related BTB domain containing 3
RHOC	NM_175744.4	ARH9,ARHC;ras homolog gene family, member C	ras homolog family member C
RHOQ RHOU	NM_012249.3 NM_021205.4	RASL7A,ARHQ;RAS-like, family 7, member A,ras homolog gene family, member Q ARHU;ras homolog gene family, member U	ras homolog family member Q ras homolog family member U
RIN2	NM_018993.2	ANTO, ISS HOMOLOG SERIE HAMMY, INTERNOEL O	Ras and Rab interactor 2
RNF13 RNF141	NM_183381.2 NM_016422.3		ring finger protein 13 ring finger orotein 141
RRAS	NM_006270.3	related RAS viral (r-ras) oncogene homolog	RAS related
RREB1 RTKN	NM_001003698.2 NM_001015055.1		ras responsive element binding protein 1 rhotekin
RTN1	NM_021136.2	NSP;neuroendocrine-specific protein	reticulon 1
RUNDC3A S100A11	NM_001144826.1 NM_005620.1	S100 calcium-binding protein A11 (calgizzarin)	RUN domain containing 3A \$100 calcium binding protein A11
S1PR1 SAMD12	NM_001400.3 NM 001101676.1	EDG1;endothelial differentiation, sphingolipid G-protein-coupled receptor, 1	sphingosine-1-phosphate receptor 1 sterile aloha motif domain containine 12
SAMD4A	NM_001161576.2	SAMD4;sterile alpha motif domain containing 4	sterile alpha motif domain containing 4A
SASH1 SAT1	NM_015278.3 NM_002970.2	SAT:spermidine/spermine N1-acetyltransferase	SAM and SH3 domain containing 1 spermidine/spermine N1-acetyltransferase 1
SCAF8	NM_014892.4	RBM16;RNA binding motif protein 16	SR-related CTD associated factor 8
SCAI SCAMP2	NM_173690.4 NM_005697.3	C9orf126;chromosome 9 open reading frame 126	suppressor of cancer cell invasion secretory carrier membrane protein 2
	NM 005506.2	CD36L2;CD36 antigen (collagen type I receptor, thrombospondin receptor)-like 2	
SCARB2 SCLT1	NM_005506.2 NM_144643.2	(lysosomal integral membrane protein II)	scavenger receptor class B member 2 sodium channel and clathrin linker 1
		MED;sodium channel, voltage gated, type VIII, alpha polypeptide,sodium channel, voltage gated, type VIII, alpha subunit,sodium channel, voltage gated, type VIII alpha	
SCN8A	NM_014191.2	subunit	sodium voltage-gated channel alpha subunit 8
SCOC SEC23IP	NM_032547.2 NM_007190.3	short coiled coil protein	short coiled-coil protein SEC23 interacting protein
SECISBP2L	NM_001193489.1		SECIS binding protein 2 like
SEMA6A	NM_020796.3	SEMAQ;sema domain, transmembrane domain (TM), and cytoplasmic domain, (semaphorin) 6A	semaphorin 6A
		ELANH2;serine (or cysteine) proteinase inhibitor, clade B (ovalbumin), member 1,serpin	
SERPINB1	NM_030666.2	peptidase inhibitor, clade B (ovalbumin), member 1	serpin family B member 1
CEDDING4	NIM COOCCE 2	C1NH;serine (or cysteine) proteinase inhibitor, clade G (C1 inhibitor), member 1, (angioedema, hereditary),serpin peptidase inhibitor, clade G (C1 inhibitor), member 1	sernin family 6 member 1
SERPING1 SESTD1	NM_000062.2 NM_178123.4	(angioedema, hereditary), serpin peptidase inhibitor, clade G (C1 inhibitor), member 1 SEC14 and spectrin domains 1	serpin family G member 1 SEC14 and spectrin domain containing 1
SEZ6L2 SFT2D2		seizure related 6 homolog (mouse)-like 2	seizure related 6 homolog like 2 SFT2 domain containine 2
SFT2D2 SH3GL2	NM_199344.2 NM_003026.2	SH3 domain containing GRB2 like 2	SH3 domain containing GR82 like 2, endophilin A1
SH3GLB1	NM_016009.4	SH3-domain, GRB2-like, endophilin B1 SIR2L;sirtuin (silent mating type information regulation 2, S.cerevisiae, homolog)	SH3 domain containing GRB2 like, endophilin B1
SIRT2	NM_012237.3	2,sirtuin (silent mating type information regulation 2 homolog) 2 (S. cerevisiae)	sirtuin 2
SKP1 SLA	NM_170679.2	SKP1A;S-phase kinase-associated protein 1A (p19A) Src-like-adapter,Src-like-adaptor	S-phase kinase associated protein 1 Src like adaptor
SLAIN1	NM_001040153.3	C13orf32;chromosome 13 open reading frame 32	SLAIN motif family member 1
SLC12A5 SLC25A20	NM_001134771.1 NM 000387.5	solute carrier family 12 (potassium/chloride transporter), member 5 CACT;solute carrier family 25 (carnitine/acylcarnitine translocase), member 20	solute carrier family 12 member 5 solute carrier family 25 member 20
	223307.3	GLUT1,GLUT,HTLVR,CSE;human T-cell leukemia virus (I and II) receptor,choreoathetosis/spasticity, episodic (paroxysmal	
ci co		choreoathetosis/spasticity), solute carrier family 2 (facilitated glucose transporter),	saluta assoine familie 2 membar 4
SLC2A1 SLC2A13	NM_006516.2 NM_052885.3	member 1 solute carrier family 2 (facilitated glucose transporter), member 13	solute carrier family 2 member 1 solute carrier family 2 member 13
SLC38A2	NM_018976.4	solute carrier family 38, member 2	solute carrier family 38 member 2
SLC39A1	NM_001271957.1	ZIRTL;zinc/iron regulated transporter-like, solute carrier family 39 (zinc transporter), member 1	solute carrier family 39 member 1

SLC41A1	NINA 1720E4 4	solute carrier family 41 (magnesium transporter), member 1	saluda sassina familia. 41 manuhar 1
SLC44A1		CDW92;CDW92 antigen, solute carrier family 44 (choline transporter), member 1	solute carrier family 41 member 1 solute carrier family 44 member 1
SLC44A1		solute carrier family 44 (choline transporter), member 2	solute carrier family 44 member 2 solute carrier family 44 member 2
		EPB3L1,AE2;erythrocyte membrane protein band 3-like 1,solute carrier family 4, anion	
		exchanger, member 2 (erythrocyte membrane protein band 3-like 1), solute carrier	
SLC4A2	NM_001199694.1	family 4 (anion exchanger), member 2	solute carrier family 4 member 2
		solute carrier family 5 (inositol transporter), member 3, solute carrier family 5	
SLC5A3	NM_006933.2	(sodium/myo-inositol cotransporter), member 3	solute carrier family 5 member 3
		solute carrier family 6 (neurotransmitter transporter), member 17, solute carrier family	
SLC6A17	NM 001010898.2	6, member 17, solute carrier family 6 (neutral amino acid transporter), member 17	solute carrier family 6 member 17
SLC8A2	NM_015063.2	solute carrier family 8 (sodium/calcium exchanger), member 2	solute carrier family 8 member A2
		solute carrier family 9 (sodium/hydrogen exchanger), isoform 9, solute carrier family 9	
		(sodium/hydrogen exchanger), member 9, solute carrier family 9, subfamily A (NHE9,	
SLC9A9	NM_173653.3	cation proton antiporter 9), member 9	solute carrier family 9 member A9
		SLC21A9;solute carrier family 21 (organic anion transporter), member 9,solute carrier	
SLCO2B1	NM_001145212.2	organic anion transporter family, member 2B1 MADH5;MAD, mothers against decapentaplegic homolog 5 (Drosophila),SMAD, mothers	solute carrier organic anion transporter family member 2B1
SMAD5	NM_005903.5	against DPP homolog 5 (Drosophila)	SMAD family member 5
SIVINDS	NW_003903.3	smg-5 homolog, nonsense mediated mRNA decay factor (C. elegans),SMG5, nonsense	Jiwa Jaminy member 3
SMG5	NM_015327.2	mediated mRNA decay factor	SMG5 nonsense mediated mRNA decay factor
	_	·	•
		C19orf61;chromosome 19 open reading frame 61,smg-9 homolog, nonsense mediated	
SMG9	NM_019108.2	mRNA decay factor (C. elegans),SMG9, nonsense mediated mRNA decay factor	SMG9 nonsense mediated mRNA decay factor
SMIM7 SNAP25	NM_024104.3 NM 003081.3	C19orf42;chromosome 19 open reading frame 42 SNAP;synaptosomal-associated protein, 25kDa	small integral membrane protein 7 synaptosome associated protein 25
SNAP29	NM_003081.3 NM_004782.3	synaptosomal-associated protein, 29kDa	synaptosome associated protein 29 synaptosome associated protein 29
		C1orf142;chromosome 1 open reading frame 142,synaptosomal-associated protein,	
SNAP47	NM_053052.2	47kDa	synaptosome associated protein 47
SNAP91	NM_001242794.1	synaptosomal-associated protein, 91 kDa (mouse) homolog	synaptosome associated protein 91
		PARK1,PARK4;Parkinson disease (autosomal dominant, Lewy body) 4,synuclein, alpha	
SNCA	NM_000345.2	(non A4 component of amyloid precursor) C6orf151;chromosome 6 open reading frame 151,small nuclear ribonucleoprotein	synuclein alpha
SNRNP48	NM_152551.3	48kDa (U11/U12),small nuclear ribonucleoprotein, U11/U12 48kDa subunit	small nuclear ribonucleoprotein U11/U12 subunit 48
SNX1	NM 152826.2	40KDa (011/012),3iilali liucleai libbilucleopiotelli, 011/012 40KDa 3ubuliit	sindi note in nonceprote in 01/01 subunit 46 sorting note in 1/01 subunit 46 sorting next in 1
SNX22	NM_024798.2		sorting nexin 22
SNX29	NM_032167.3	RUNDC2A;RUN domain containing 2A	sorting nexin 29
SNX3	NM_152827.2		sorting nexin 3
SNX4	NM_003794.2		sorting nexin 4
SNX5	NM_014426.2		sorting nexin 5
SOAT1	NM_003101.4	SOAT,STAT;sterol O-acyltransferase (acyl-Coenzyme A: cholesterol acyltransferase) 1	sterol O-acyltransferase 1
SORBS1	NM_003101.4 NM_001034956.1	SH3D5;SH3-domain protein 5 (ponsin)	sterio U-acytransterase 1 sorbin and SH3 domain containing 1
SOX5	NM_152989.2	SRY (sex determining region Y)-box 5,SRY box 5	Solvin and SH3 Gornan Containing 1
SOX8	NM_014587.2	SRY (sex determining region Y)-box 8,SRY box 8	SRY-box 8
		CMD1,CMPD1;campomelic dysplasia, autosomal sex-reversal,SRY (sex determining	
SOX9	NM_000346.2	region Y)-box 9,SRY box 9	SRY-box 9
SPPL2B	NM_001077238.1		signal peptide peptidase like 2B
SPR	NM_003124.4	sepiapterin reductase (7,8-dihydrobiopterin:NADP+ oxidoreductase)	sepiapterin reductase
SPTLC2 SREBF1	NM_004863.3 NM_001005291.1		serine palmitoyltransferase long chain base subunit 2 sterol regulatory element binding transcription factor 1
SRGN	NR_036430.1	PRG,PRG1;proteoglycan 1, secretory granule	stero regulatory element ununing transcription ractor 1 seeplycin
SRI	NM 003130.2	They, not, proceeding and 1, secretory granule	sorgin
SRRM4	NM_194286.3	KIAA1853;KIAA1853	serine/arginine repetitive matrix 4
		ZNF387;zinc finger protein 387,suppression of tumorigenicity 18 (breast carcinoma)	
		(zinc finger protein), suppression of tumorigenicity 18, zinc finger, ST18, C2H2C-type zinc	
ST18	NM_014682.2	finger	ST18 C2H2C-type zinc finger transcription factor
CTOCALO.	NA 474000 3	SIAT6,MRT12;sialyltransferase 6 (N-acetyllactosaminide alpha 2,3-	CTA has a baseling at the 22 of the order of
ST3GAL3	NM_174966.2	sialyltransferase),mental retardation, non-syndromic, autosomal recessive, 12 SIAT1;sialyltransferase 1 (beta-galactoside alpha-2,6-sialytransferase),ST6 beta-	ST3 beta-galactoside alpha-2,3-sialyltransferase 3
		galactosamide alpha-2,6-sialyltranferase 1,ST6 N-acetylgalactosaminide alpha-2,6-	
ST6GAL1	NM_003032.2	sialyltransferase 1	ST6 beta-galactoside alpha-2,6-sialyltransferase 1
		SIAT7E;sialyltransferase 7 ((alpha-N-acetylneuraminyl-2,3-beta-galactosyl-1,3)-N-acetyl	
		galactosaminide alpha-2,6-sialyltransferase) E,ST6 (alpha-N-acetyl-neuraminyl-2,3-beta-	
		galactosyl-1,3)-N-acetylgalactosaminide alpha-2,6-sialyltransferase 5,ST6 GalNAc alpha-	
ST6GALNAC5	NM_030965.1	2,6-sialyltransferase 5	ST6 N-acetylgalactosaminide alpha-2,6-sialyltransferase 5
STARD8	NM_015879.2 NM_014725.3	SIAT8C; SIAT8C	ST8 alpha-N-acetyl-neuraminide alpha-2,8-sialyltransferase 3
STARD8 STAT3	NM_014725.3 NM 003150.3	START domain containing 8 signal transducer and activator of transcription 3 (acute-phase response factor)	StAR related lipid transfer domain containing 8 signal transducer and activator of transcription 3
JINIS	NW_003130.3	staufen (Drosophila, RNA-binding protein) homolog 2,staufen, RNA binding protein,	signar dansuccer and activator or danscription 3
STAU2	NM_014393.2	homolog 2 (Drosophila)	staufen double-stranded RNA binding protein 2
STIP1	NM_006819.2	stress-induced-phosphoprotein 1	stress induced phosphoprotein 1
STMN2	NM_007029.2	SCGN10;stathmin-like 2	stathmin 2
STOM	NM_004099.4	EPB7,EPB72;erythrocyte membrane protein band 7.2 (stomatin)	stomatin
STON2 STX1A	NM_033104.2	STX1;syntaxin 1A (brain)	stonin 2 syntaxin 1A
STX1A STX1B		STX1;syntaxin 1A (brain) STX1B1;STX1B2;syntaxin 1B1,syntaxin 1B2	Syntaxii 18
STX4		STX4A;syntaxin 4A (placental)	Syntaxin 16
STX6	NM_005819.4	· · · · · · · · · · · · · · · · · · ·	Syricani 4
STXBP1	NM_003165.3		syntaxin binding protein 1
STXBP5L	NM_014980.2	syntaxin binding protein 5-like	syntaxin binding protein 5 like
SUB1	NM_006713.3	SUB1 homolog (S. cerevisiae)	SUB1 homolog, transcriptional regulator
SULT4A1	NM_014351.3	sulfotransferase family 4A, member 1	sulfotransferase family 4A member 1
SUMF2	NM_001042470.1	UNC84B;unc-84 homolog B (C. elegans)	sulfatase modifying factor 2 Sad1 and UNC84 domain containing 2
SUN2 SV2A	NM_001199580.1 NM_001278719.1	Oncorp, diferent monitologie (c. e/egdis)	Sad1 and UNC84 domain containing Z synaptic vesicle glycoprotein ZA
SVOP		SV2 related protein homolog (rat)	syriaptic vesice gycuption IZA SVI related protein
SYN2	NM_003178.5		synapsin II
SYNGR1	NM_145731.3		synaptogyrin 1
SYNGR3	NM_004209.4		synaptogyrin 3
SYNJ1 SYP	NM_203446.1		synaptojanin 1 synaptojanis
SYP SYT1	NM_003179.2 NM_005639.2	SYT,SVP65;synaptotagmin I	synaptothysin synaptotagmin 1
SYT13		synaptotagmin XIII	synaptotagmin 1
SYT16		SYT14L;synaptotagmin XIV-like,synaptotagmin XVI	ayriaptotigniii 13 synaptotigniii 16
TAGLN2	NM_003564.1		transgelin 2
TATDN3	NM_001042552.2		TatD DNase domain containing 3
TBC1D30		TBC1 domain family, member 30	TBC1 domain family member 30
TBC1D9	NM_015130.2	TBC1 domain family, member 9 (with GRAM domain)	TBC1 domain family member 9
TBL3 TCF12	NM_006453.2 NM_003205.3	transducin (beta)-like 3	transducin beta like 3 transcription factor 12
ICF12	NIVI_003205.3	T-cell, immune regulator 1,T-cell, immune regulator 1, ATPase, H+ transporting,	uaissi puuri attui 12
		lysosomal V0 protein a isoform 3,T-cell, immune regulator 1, ATPase, H+ transporting,	
		lysosomal V0 subunit A3,T-cell immune regulator 1, ATPase H+ transporting V0 subunit	
TCIRG1	NM_006053.2	a3	T cell immune regulator 1, ATPase H+ transporting V0 subunit a3
TENM2		ODZ2;odz, odd Oz/ten-m homolog 2 (Drosophila)	teneurin transmembrane protein 2
TF	NM_001063.2		transferrin
TFEB	NM_007162.2	transforming arough forter plak-	transcription factor EB
TGFA	NM_003236.2	transforming growth factor, alpha MSSE,ESS1;multiple self-healing squamous epithelioma,transforming growth factor beta	transforming growth factor alpha
TGFBR1	NM_004612.2	MSSE,ESS1;multiple self-healing squamous epithelioma,transforming growth factor beta receptor I	transforming growth factor beta receptor 1
.0.511	004012.2	MFS2;transforming growth factor, beta receptor II (70/80kDa),transforming growth	
TGFBR2	NM_001024847.1	factor beta receptor II	transforming growth factor beta receptor 2
TGM2	NM_004613.2	transglutaminase 2 (C polypeptide, protein-glutamine-gamma-glutamyltransferase)	transplutaminase 2
		DYT6;dystonia 6, torsion (autosomal dominant),THAP domain containing, apoptosis	
THAP1	NM_018105.2	associated protein 1	THAP domain containing 1
		ERBA2,PRTH;thyroid hormone receptor, beta (avian erythroblastic leukemia viral (v-erb-	
		a) oncogene homolog 2), pituitary resistance to thyroid hormone, thyroid hormone	
THRB	NM 000461.4	receptor, beta (erythroblastic leukemia viral (v-erb-a) oncogene homolog 2, avian),thyroid hormone receptor, beta	thyroid hormone receptor beta
TJP2	NM_004817.2	DFNA51;deafness, autosomal dominant 51	tayota normone receptor pera
TLN1	NM_006289.3	TLN	tain 1
TM4SF1		M3S1;transmembrane 4 superfamily member 1	transmembrane 4 L six family member 1
	NM_014220.2	Wi331,transmentorate 4 superranning member 1	
TMBIM1	NM_022152.4		transmembrane BAX inhibitor motif containing 1
TMBIM1 TMBIM6	NM_022152.4 NM_003217.2	TEGT;testis enhanced gene transcript	transmembrane BAX inhibitor motif containing 6
TMBIM1	NM_022152.4		

TMCC3		transmembrane and coiled-coil domains 3	transmembrane and coiled-coil domain family 3
TMED10	NM_006827.5	transmembrane emp24-like trafficking protein 10 (yeast)	transmembrane p24 trafficking protein 10
TMEM125	NM_144626.1		transmembrane protein 125 transmembrane protein 128
TMEM128	NM_001297551.1		
TMEM144	NM_018342.4		transmembrane protein 144
TMEM165	NM_018475.4		transmembrane protein 165
TMEM168	NM_022484.5		transmembrane protein 168 transmembrane protein 176A
TMEM176A TMEM176B	NM_018487.2 NM_001101311.1		transmentorate protein 1704
TMEM209 TMEM231	NM_032842.3 NM_001077416.1		transmembrane protein 209 transmembrane protein 231
TMEM246	NM_032342.1	C9orf125;chromosome 9 open reading frame 125	transmembrane protein 245
TMEM47	NM_031442.3	TM4SF10;transmembrane 4 superfamily member 10	transmembrane protein 240
TMEM59L	NM 012109.2	C19orf4;chromosome 19 open reading frame 4	transmembrane protein 59 like
TMEM63A	NM_014698.2	KIAA0792;KIAA0792	transmembrane protein 33 me
TMTC2	NM 152588.1	KIPOO/JE/KIPOO/JE	transmembrane and tetratricopeptide repeat containing 2
TNFAIP8		tumor necrosis factor, alpha-induced protein 8	TNF alpha induced protein 8
TNFRSF1A		TNFR1;tumor necrosis factor receptor superfamily, member 1A	TNF receptor superfamily member 1A
TOLLIP	NM 019009.2	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	toll interacting protein
		DYT1;dystonia 1, torsion (autosomal dominant; torsin A),torsin family 1, member A	
TOR1A	NM_000113.2	(torsin A)	torsin family 1 member A
TP53BP2		tumor protein p53-binding protein, 2	tumor protein p53 binding protein 2
TPI1	NM_000365.4		triosephosphate isomerase 1
TPPP3	NM_015964.2		tubulin polymerization promoting protein family member 3
		C9orf75,DFNB79;chromosome 9 open reading frame 75,deafness, autosomal recessive	
TPRN	NM_001128228.2	79	taperin
TRAPPC2L	NM_016209.3	trafficking protein particle complex 2-like	trafficking protein particle complex 2 like
TRAPPC4	NM_016146.4		trafficking protein particle complex 4
TRAPPC6A	NM_001270891.1		trafficking protein particle complex 6A
TREM2	NM_018965.2	triggering receptor expressed on myeloid cells 2a	triggering receptor expressed on myeloid cells 2
TRIM59	NM_173084.2	TRIM57;tripartite motif-containing 57,tripartite motif-containing 59	tripartite motif containing 59
		RG9MTD3;RNA (guanine-9-) methyltransferase domain containing 3,tRNA	
TRMT10B	NM_144964.3	methyltransferase 10 homolog B (S. cerevisiae)	tRNA methyltransferase 10B
TRPC1	NM_003304.4	transient receptor potential cation channel, subfamily C, member 1	transient receptor potential cation channel subfamily C member 1
TRRAP	NM_003496.2	transformation/transcription domain-associated protein	transformation/transcription domain associated protein
		SDCCAG33;serologically defined colon cancer antigen 33,teashirt zinc finger 1,teashirt	
TSHZ1	NM_005786.5	family zinc finger 1	teashirt zinc finger homeobox 1
TSNAX	NM_005999.2		translin associated factor X
TSPAN15	NM_012339.3	TM4SF15;transmembrane 4 superfamily member 15	tetraspanin 15
TSPAN6	NM_003270.3	TM4SF6;transmembrane 4 superfamily member 6	tetraspanin 6
TSPO	NM_000714.4	BZRP;benzodiazapine receptor (peripheral),translocator protein (18kDa)	translocator protein
TTYH2	NM_032646.5	tweety (Drosophila) homolog 2,tweety homolog 2 (Drosophila)	tweety family member 2
TYROBP	NM_003332.2	PLOSL	TYRO protein tyrosine kinase binding protein
U2AF2	NM_007279.2	U2 (RNU2) small nuclear RNA auxiliary factor 2	U2 small nuclear RNA auxiliary factor 2
UGGT2	NM_020121.3	UGCGL2;UDP-glucose ceramide glucosyltransferase-like 2	UDP-glucose glycoprotein glucosyltransferase 2
UGT8		CGT;UDP-galactose ceramide galactosyltransferase	UDP glycosyltransferase 8
UNC119	NM_054035.1	unc119 (C.elegans) homolog,unc-119 homolog (C. elegans)	unc-119 lipid binding chaperone
UNC5D	NM_080872.2	unc-5 homolog D (C. elegans)	unc-5 netrin receptor D
UQCRQ	NM_014402.4	ubiquinol-cytochrome c reductase, complex III subunit VII, 9.5kDa	ubiquinol-cytochrome c reductase complex III subunit VII
UROD	NR_036510.1		uroporphyrinogen decarboxylase
UROS	NM_000375.2	. E	uroporphyrinogen III synthase ubiquitin specific peptidase 31
USP31	NM_020718.2	ubiquitin specific protease 31	
USP54 UTRN	NM_152586.3	C10orf29;chromosome 10 open reading frame 29,ubiquitin specific protease 54	ubiquitin specific peptidase 54
	NM_007124.2	DMDL;utrophin (homologous to dystrophin)	utrophin vesicle associated membrane protein 1
VAMP1	NM_199245.1	SYB1;synaptobrevin 1	
VAMP3	NM_004781.3		vesicle associated membrane protein 3
VAMP8	NM_003761.4	VIII.0 (vesicle associated membrane protein 8
VAPB VAV2	NM_004738.4	VAMP (vesicle-associated membrane protein)-associated protein B and C vav 2 oncogene,vav 2 guanine nucleotide exchange factor	VAMP associated protein B and C vav guanine nucleotide exchange factor 2
VEZF1	NM_007146.2	ZNF161;zinc finger protein 161	vav gualinie intucionude exchange lactur 2 vascular endothelial zinc finger 1
VEZFI		ZNF161;Zinc Tinger protein 161	vascular enoomelial zinc ringer 1 VGF nerve growth factor inducible
VGF	NM_003378.3	vacuolar protein sorting 33B (yeast homolog),vacuolar protein sorting 33 homolog B	vor nerve growth factor inductible
VPS33B	NM_018668.3	(yeast),VPS33B, late endosome and lysosome associated	VPS33B late endosome and lysosome associated
VSNL1	NM 003385.4	(yeast), vr333B, late endosonie and lysosonie associated	vessos rate endustrie and rysosome associated vision like 1
WAC	NM_100486.2	WW domain-containing adaptor with coiled coil	vision like 1. WW domain containing adaptor with coiled-coil
	1171_100460.2	C1orf139,GPR177;chromosome 1 open reading frame 139,G protein-coupled receptor	TO COMMENT CONTROL TO CONTROL
WLS	NM 024911.4	177,wntless homolog (Drosophila),wntless Wnt ligand secretion mediator	Wnt ligand secretion mediator
WSCD2	NM 014653.2	, (WKC domain containing 2
WWC1		WW, C2 and coiled-coil domain containing 1	ws. duriant outraining 2 WW and C2 domain containing 1
WWTR1	NM_00116168278.1		www.and.cu.domain.cuntaining.1 WW.domain.cuntaining transcription regulator 1
YAP1		Yes-associated protein 1, 65kDa	WW domain Containing daiscription regulator 1 Yes associated protein 1
YBX1	NM 004559.3	NSEP1;nuclease sensitive element binding protein 1	Y-box binding protein 1
YBX3	NM 003651.3	CSDA; cold shock domain protein A	Y-box binding protein 3
YES1	NM_005433.3	v-yes-1 Yamaguchi sarcoma viral oncogene homolog 1	YES proto-nocene 1, Src family tyrosine kinase
		tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein, gamma	
YWHAG	NM_012479.3	polypeptide	tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein gamma
ZBTB33	NM_006777.3		zinc finger and BTB domain containing 33
ZBTB8OS	NM_178547.2		zinc finger and BTB domain containing 8 opposite strand
		ZDHHC10,CXorf11;zinc finger, DHHC-type containing 10,chromosome X open reading	
ZDHHC9	NM_016032.3		zinc finger DHHC-type containing 9
ZEB2		ZFHX1B;zinc finger homeobox 1b	zinc finger E-box binding homeobox 2
ZFP36		zinc finger protein 36, C3H type, homolog (mouse)	ZFP36 ring finger protein
ZFP36L1	NM_004926.2	BRF1;zinc finger protein, C3H type, 36-like 1,zinc finger protein 36, C3H type-like 1	ZFP36 ring finger protein like 1
ZMIZ2	NM_031449.3		zinc finger MIZ-type containing 2
ZNF18	NM_144680.2	zinc finger protein 18 (KOX 11)	zinc finger protein 18
ZNF536	NM_014717.2		zinc finger protein 536
ZNF592	NM_014630.2	SCAR5;spinocerebellar ataxia, autosomal recessive 5	zinc finger protein 592
ZNF768	NM_024671.3		zinc finger protein 768
ZNHIT3		TRIP3;thyroid hormone receptor interactor 3,zinc finger, HIT type 3	zinc finger HIT-type containing 3
	ce Genes		
	NM_001605.2		alanyl-tRNA synthetase
AARS	NM_024708.3	ankyrin repeat and SOCS box-containing 7	ankyrin repeat and SOCS box containing 7
ASB7			coiled-coil domain containing 127
ASB7 CCDC127	NM_145265.2		CCR4-NOT transcription complex subunit 10
ASB7 CCDC127 CNOT10	NM_145265.2 NM_001256741.1	CCR4-NOT transcription complex, subunit 10	
ASB7 CCDC127 CNOT10 CSNK2A2	NM_145265.2 NM_001256741.1 NM_001896.2	casein kinase 2, alpha prime polypeptide	casein kinase 2 alpha 2
ASB7 CCDC127 CNOT10 CSNK2A2 FAM104A	NM_145265.2 NM_001256741.1 NM_001896.2 NM_032837.2		casein kinase 2 alpha 2 family with sequence similarity 104 member A
ASB7 CCDC127 CNOT10 CSNK2A2 FAM104A LARS	NM_145265.2 NM_001256741.1 NM_001896.2 NM_032837.2 NM_020117.9	casein kinase 2, alpha prime polypeptide family with sequence similarity 104, member A	casein kinase 2 alpha 2 family with sequence similarity 104 member A leucyl-tRNA symbhetase
ASB7 CCDC127 CNOT10 CSNK2A2 FAM104A LARS MTO1	NM_145265.2 NM_001256741.1 NM_001896.2 NM_032837.2 NM_020117.9 NM_133645.2	casein kinase 2, alpha prime polypeptide family with sequence similarity 104, member A mitochondrial translation optimization 1 homolog (S. cerevisiae)	casein kinase 2 alpha 2 family with sequence similarity 104 member A leucy4-tRNA synthetase mitochondrial tRNA translation optimization 1
ASB7 CCDC127 CNOT10 CSNK2A2 FAM104A LARS MTO1 SUPT7L	NM_145265.2 NM_001256741.1 NM_001896.2 NM_032837.2 NM_020117.9 NM_133645.2 NM_014860.2	casein kinase 2, alpha prime polypeptide family with sequence similarity 104, member A	casein kinase 2 alpha 2 family with sequence similarity 104 member A leucyl-tRNA synthetase mitochondrial tRNA translation optimization 1 SPT7 like, STAGA complex gamma subunit
ASB7 CCDC127 CNOT10 CSNK2A2 FAM104A LARS MTO1 SUPT7L	NM_145265.2 NM_001256741.1 NM_001896.2 NM_032837.2 NM_020117.9 NM_133645.2 NM_014860.2	casein kinase 2, alpha prime polypeptide family with sequence similarity 104, member A mitochondrial translation optimization 1 homolog (S. cerevisiae)	casein kinase 2 alpha 2 family with sequence similarity 104 member A leucy4-tRNA synthetase mitochondrial tRNA translation optimization 1 SPT7 like, 5TAGK complex gamma subunit
ASB7 CCDC127 CNOT10 CSNK2A2 FAM104A LARS MTO1	NM_145265.2 NM_001256741.1 NM_001896.2 NM_032837.2 NM_020117.9 NM_133645.2	casein kinase 2, alpha prime polypeptide family with sequence similarity 104, member A mitochondrial translation optimization 1 homolog (S. cerevisiae) suppressor of Ty 7 (S. cerevisiae)-like	casein kinase 2 alpha 2 family with sequence similarity 104 member A leucy4-fRNA synthetase mitochondrial fRNA translation optimization 1