

Supplementary Table S1. Targets of nervous system**UniProt ID UniProt Name**

O00255	Menin 1
O00555	Calcium Voltage-Gated Channel Subunit Alpha1 A
O14497	AT-Rich Interaction Domain 1A
O15146	Muscle Associated Receptor Tyrosine Kinase
O43612	Hypocretin Neuropeptide Precursor
O60260	Parkin RBR E3 Ubiquitin Protein Ligase
O60733	Phospholipase A2 Group VI
O75665	OFD1, Centriole And Centriolar Satellite Protein
O95409	Zic Family Member 2
P00414	Mitochondrially Encoded Cytochrome C Oxidase III
P00441	Superoxide Dismutase 1
P00450	Ceruloplasmin
P01112	HRas Proto-Oncogene, GTPase
P01116	KRAS Proto-Oncogene, GTPase
P01127	Platelet Derived Growth Factor Subunit B
P01138	Nerve Growth Factor
P01189	Proopiomelanocortin
P01213	Prodynorphin
P01303	Neuropeptide Y
P01308	Insulin
P01375	Tumor Necrosis Factor
P01579	Interferon Gamma
P01584	Interleukin 1 Beta
P01911	Major Histocompatibility Complex, Class II, DR Beta 1
P01920	Major Histocompatibility Complex, Class II, DQ Beta 1
P02649	Apolipoprotein E
P02768	Albumin
P03886	Mitochondrially Encoded NADH:Ubiquinone Oxidoreductase Core Subunit 1
P03915	Mitochondrially Encoded NADH:Ubiquinone Oxidoreductase Core Subunit 5
P03923	Mitochondrially Encoded NADH:Ubiquinone Oxidoreductase Core Subunit 6
P04062	Glucosylceramidase Beta
P04156	Prion Protein
P04271	S100 Calcium Binding Protein B
P04637	Tumor Protein P53
P05019	Insulin Like Growth Factor 1
P05067	Amyloid Beta Precursor Protein
P05231	Interleukin 6
P06280	Galactosidase Alpha
P06850	Corticotropin Releasing Hormone
P06881	Calcitonin Related Polypeptide Alpha
P07101	Tyrosine Hydroxylase
P07949	Ret Proto-Oncogene
P08908	5-Hydroxytryptamine Receptor 1A
P09172	Dopamine Beta-Hydroxylase
P09619	Platelet Derived Growth Factor Receptor Beta
P10071	GLI Family Zinc Finger 3
P10636	Microtubule Associated Protein Tau
P11166	Solute Carrier Family 2 Member 1
P11362	Fibroblast Growth Factor Receptor 1
P12821	Angiotensin I Converting Enzyme
P13637	ATPase Na ⁺ /K ⁺ Transporting Subunit Alpha 3
P14136	Glial Fibrillary Acidic Protein
P14416	Dopamine Receptor D2
P15056	B-Raf Proto-Oncogene, Serine/Threonine Kinase
P15104	Glutamate-Ammonia Ligase
P15289	Arylsulfatase A
P15884	Transcription Factor 4
P16278	Galactosidase Beta 1
P20226	TATA-Box Binding Protein

P20700 Lamin B1
P20783 Neurotrophin 3
P21333 Filamin A
P21359 Neurofibromin 1
P21397 Monoamine Oxidase A
P21917 Dopamine Receptor D4
P21964 Catechol-O-Methyltransferase
P22301 Interleukin 10
P22466 Galanin And GMAP Prepropeptide
P22607 Fibroblast Growth Factor Receptor 3
P23560 Brain Derived Neurotrophic Factor
P23760 Paired Box 3
P23975 Solute Carrier Family 6 Member 2
P26358 DNA Methyltransferase 1
P26367 Paired Box 6
P27338 Monoamine Oxidase B
P28329 Choline O-Acetyltransferase
P28799 Granulin Precursor
P29475 Nitric Oxide Synthase 1
P29992 G Protein Subunit Alpha 11
P30793 GTP Cyclohydrolase 1
P31645 Solute Carrier Family 6 Member 4
P31749 AKT Serine/Threonine Kinase 1
P32243 Orthodenticle Homeobox 2
P35520 Cystathionine-Beta-Synthase
P35637 FUS RNA Binding Protein
P35716 SRY-Box 11
P37840 Synuclein Alpha
P39905 Glial Cell Derived Neurotrophic Factor
P41159 Leptin
P42336 Phosphatidylinositol-4,5-Bisphosphate 3-Kinase Catalytic Subunit Alpha
P42345 Mechanistic Target Of Rapamycin Kinase
P42858 Huntingtin
P42898 Methylene tetrahydrofolate Reductase
P43004 Solute Carrier Family 1 Member 2
P43354 Nuclear Receptor Subfamily 4 Group A Member 2
P48436 SRY-Box 9
P49768 Presenilin 1
P51532 SWI/SNF Related, Matrix Associated, Actin Dependent Regulator Of Chromatin, Subfamily A, Me
P51608 Methyl-CpG Binding Protein 2
P51659 Hydroxysteroid 17-Beta Dehydrogenase 4
P53667 LIM Domain Kinase 1
P54098 DNA Polymerase Gamma, Catalytic Subunit
P55072 Valosin Containing Protein
P55075 Fibroblast Growth Factor 8
P55316 Forkhead Box G1
P60484 Phosphatase And Tensin Homolog
P61278 Somatostatin
P78509 Reelin
P98164 LDL Receptor Related Protein 2
Q01959 Solute Carrier Family 6 Member 3
Q05940 Solute Carrier Family 18 Member A2
Q06413 Myocyte Enhancer Factor 2C
Q06787 Fragile X Mental Retardation 1
Q12824 SWI/SNF Related, Matrix Associated, Actin Dependent Regulator Of Chromatin, Subfamily B, Me
Q12879 Glutamate Ionotropic Receptor NMDA Type Subunit 2A
Q13148 TAR DNA Binding Protein
Q13224 Glutamate Ionotropic Receptor NMDA Type Subunit 2B
Q13255 Glutamate Metabotropic Receptor 1
Q13501 Sequestosome 1
Q13635 Patched 1

Q13702 Receptor Associated Protein Of The Synapse
Q14203 Dynactin Subunit 1
Q15067 Acyl-CoA Oxidase 1
Q15303 Erb-B2 Receptor Tyrosine Kinase 4
Q15465 Sonic Hedgehog
Q16620 Neurotrophic Receptor Tyrosine Kinase 2
Q5JTZ9 Alanyl-TRNA Synthetase 2, Mitochondrial
Q5S007 Leucine Rich Repeat Kinase 2
Q8NER1 Transient Receptor Potential Cation Channel Subfamily V Member 1
Q8NFD5 AT-Rich Interaction Domain 1B
Q969G3 SWI/SNF Related, Matrix Associated, Actin Dependent Regulator Of Chromatin, Subfamily E, Me
Q96CV9 Optineurin
Q96LT7 Chromosome 9 Open Reading Frame 72
Q96RR1 Twinkle MtDNA Helicase
Q99259 Glutamate Decarboxylase 1
Q99497 Parkinsonism Associated Deglycase
Q99700 Ataxin 2
Q9BYW2 SET Domain Containing 2
Q9BZ23 Pantothenate Kinase 2
Q9HBA0 Transient Receptor Potential Cation Channel Subfamily V Member 4
Q9NQC3 Reticulon 4
Q9NRA2 Solute Carrier Family 17 Member 5
Q9NSK7 Chromosome 19 Open Reading Frame 12
Q9NWW5 CLN6, Transmembrane ER Protein
Q9P0N5 Transmembrane Protein 216
Q9UBK2 PPARG Coactivator 1 Alpha
Q9UBP0 Spastin
Q9UHD2 TANK Binding Kinase 1
Q9UM47 Notch 3
Q9UQN3 Charged Multivesicular Body Protein 2B
Q9Y243 AKT Serine/Threonine Kinase 3
Q9Y276 BCS1 Homolog, Ubiquinol-Cytochrome C Reductase Complex Chaperone
Q9Y617 Phosphoserine Aminotransferase 1
Q9Y6H5 Synuclein Alpha Interacting Protein
Q9Y6K9 Inhibitor Of Nuclear Factor Kappa B Kinase Subunit Gamma

Supplementary Table S2. Targets of immune system**UniProt ID UniProt name**

P02787	Transferrin
P07202	Thyroid Peroxidase
P98160	Heparan Sulfate Proteoglycan 2
Q06124	Protein Tyrosine Phosphatase, Non-Receptor Type 11
Q6UXH8	Collagen And Calcium Binding EGF Domains 1
O15146	Muscle Associated Receptor Tyrosine Kinase
O43435	T-Box 1
O60934	Nibrin
P00738	Haptoglobin
P01112	HRas Proto-Oncogene, GTPase
P01116	KRAS Proto-Oncogene, GTPase
P01189	Proopiomelanocortin
P01236	Prolactin
P01308	Insulin
P01375	Tumor Necrosis Factor
P01562	Interferon Alpha 1
P01579	Interferon Gamma
P01584	Interleukin 1 Beta
P01589	Interleukin 2 Receptor Subunit Alpha
P01911	Major Histocompatibility Complex, Class II, DR Beta 1
P01920	Major Histocompatibility Complex, Class II, DQ Beta 1
P02649	Apolipoprotein E
P02741	C-Reactive Protein
P02768	Albumin
P04049	Raf-1 Proto-Oncogene, Serine/Threonine Kinase
P04062	Glucosylceramidase Beta
P04150	Nuclear Receptor Subfamily 3 Group C Member 1
P04637	Tumor Protein P53
P05231	Interleukin 6
P10145	C-X-C Motif Chemokine Ligand 8
P11274	BCR, RhoGEF And GTPase Activating Protein
P14902	Indoleamine 2,3-Dioxygenase 1
P15056	B-Raf Proto-Oncogene, Serine/Threonine Kinase
P15976	GATA Binding Protein 1
P22301	Interleukin 10
P22607	Fibroblast Growth Factor Receptor 3
P23771	GATA Binding Protein 3
P27986	Phosphoinositide-3-Kinase Regulatory Subunit 1
P28482	Mitogen-Activated Protein Kinase 1
P31749	AKT Serine/Threonine Kinase 1
P40200	CD96 Molecule
P41159	Leptin
P42336	Phosphatidylinositol-4,5-Bisphosphate 3-Kinase Catalytic Subunit Alpha
P42345	Mechanistic Target Of Rapamycin Kinase
P49913	Cathelicidin Antimicrobial Peptide
P49917	DNA Ligase 4
P60484	Phosphatase And Tensin Homolog
P60568	Interleukin 2
P62834	RAP1A, Member Of RAS Oncogene Family
P68871	Hemoglobin Subunit Beta
Q13936	Calcium Voltage-Gated Channel Subunit Alpha1 C
Q14739	Lamin B Receptor
Q99572	Purinergic Receptor P2X 7
Q9NRZ9	Helicase, Lymphoid Specific
Q9NZC2	Triggering Receptor Expressed On Myeloid Cells 2
Q9P2D1	Chromodomain Helicase DNA Binding Protein 7
Q9UHD2	TANK Binding Kinase 1
Q9Y2R2	Protein Tyrosine Phosphatase, Non-Receptor Type 22
Q9Y6K9	Inhibitor Of Nuclear Factor Kappa B Kinase Subunit Gamma

Supplementary Table S3. Targets of endocrine system**UniProt ID UniProt name**

O00170	Aryl Hydrocarbon Receptor Interacting Protein
O00192	ARVCF, Delta Catenin Family Member
O00230	Cortistatin
O00255	Menin 1
O14497	AT-Rich Interaction Domain 1A
O14662	Syntaxin 16
O43435	T-Box 1
O43933	Peroxisomal Biogenesis Factor 1
O75360	PROP Paired-Like Homeobox 1
O76024	Wolframin ER Transmembrane Glycoprotein
O94972	Tripartite Motif Containing 37
P01112	HRas Proto-Oncogene, GTPase
P01116	KRAS Proto-Oncogene, GTPase
P01138	Nerve Growth Factor
P01148	Gonadotropin Releasing Hormone 1
P01185	Arginine Vasopressin
P01189	Proopiomelanocortin
P01222	Thyroid Stimulating Hormone Beta
P01236	Prolactin
P01241	Growth Hormone 1
P01270	Parathyroid Hormone
P01303	Neuropeptide Y
P01308	Insulin
P01375	Tumor Necrosis Factor
P01579	Interferon Gamma
P01584	Interleukin 1 Beta
P01589	Interleukin 2 Receptor Subunit Alpha
P01911	Major Histocompatibility Complex, Class II, DR Beta 1
P01920	Major Histocompatibility Complex, Class II, DQ Beta 1
P02741	C-Reactive Protein
P02768	Albumin
P02787	Transferrin
P03372	Estrogen Receptor 1
P04049	Raf-1 Proto-Oncogene, Serine/Threonine Kinase
P04150	Nuclear Receptor Subfamily 3 Group C Member 1
P04278	Sex Hormone Binding Globulin
P04637	Tumor Protein P53
P05019	Insulin Like Growth Factor 1
P05231	Interleukin 6
P06307	Cholecystokinin
P06850	Corticotropin Releasing Hormone
P06881	Calcitonin Related Polypeptide Alpha
P07101	Tyrosine Hydroxylase
P07202	Thyroid Peroxidase
P07949	Ret Proto-Oncogene
P08069	Insulin Like Growth Factor 1 Receptor
P08397	Hydroxymethylbilane Synthase
P08833	Insulin Like Growth Factor Binding Protein 1
P09619	Platelet Derived Growth Factor Receptor Beta
P10071	GLI Family Zinc Finger 3
P10082	Peptide YY
P10145	C-X-C Motif Chemokine Ligand 8
P10644	Protein Kinase CAMP-Dependent Type I Regulatory Subunit Alpha
P10912	Growth Hormone Receptor
P11166	Solute Carrier Family 2 Member 1
P11362	Fibroblast Growth Factor Receptor 1
P12821	Angiotensin I Converting Enzyme
P14136	Glial Fibrillary Acidic Protein
P14416	Dopamine Receptor D2

P15056 B-Raf Proto-Oncogene, Serine/Threonine Kinase
P16220 CAMP Responsive Element Binding Protein 1
P16435 Cytochrome P450 Oxidoreductase
P17302 Gap Junction Protein Alpha 1
P17612 Protein Kinase CAMP-Activated Catalytic Subunit Alpha
P20396 Thyrotropin Releasing Hormone
P21359 Neurofibromin 1
P21802 Fibroblast Growth Factor Receptor 2
P21964 Catechol-O-Methyltransferase
P22466 Galanin And GMAP Prepropeptide
P23352 Anosmin 1
P23771 GATA Binding Protein 3
P26367 Paired Box 6
P27361 Mitogen-Activated Protein Kinase 3
P27487 Dipeptidyl Peptidase 4
P27986 Phosphoinositide-3-Kinase Regulatory Subunit 1
P28069 POU Class 1 Homeobox 1
P28482 Mitogen-Activated Protein Kinase 1
P30968 Gonadotropin Releasing Hormone Receptor
P31749 AKT Serine/Threonine Kinase 1
P36551 Coproporphyrinogen Oxidase
P39905 Glial Cell Derived Neurotrophic Factor
P41159 Leptin
P41180 Calcium Sensing Receptor
P42336 Phosphatidylinositol-4,5-Bisphosphate 3-Kinase Catalytic Subunit Alpha
P42345 Mechanistic Target Of Rapamycin Kinase
P42898 Methylenetetrahydrofolate Reductase
P48436 SRY-Box 9
P51532 SWI/SNF Related, Matrix Associated, Actin Dependent Regulator Of Chromatin, Subfam
P51654 Glypican 3
P51659 Hydroxysteroid 17-Beta Dehydrogenase 4
P54098 DNA Polymerase Gamma, Catalytic Subunit
P54198 Histone Cell Cycle Regulator
P55075 Fibroblast Growth Factor 8
P60484 Phosphatase And Tensin Homolog
P60568 Interleukin 2
P61278 Somatostatin
P63092 GNAS Complex Locus
P78504 Jagged 1
Q02750 Mitogen-Activated Protein Kinase Kinase 1
Q03431 Parathyroid Hormone 1 Receptor
Q06124 Protein Tyrosine Phosphatase, Non-Receptor Type 11
Q06787 Fragile X Mental Retardation 1
Q08499 Phosphodiesterase 4D
Q13635 Patched 1
Q14739 Lamin B Receptor
Q14999 Cullin 7
Q15465 Sonic Hedgehog
Q15652 Jumonji Domain Containing 1C
Q15726 KiSS-1 Metastasis Suppressor
Q30201 Hemochromatosis
Q7LG56 Ribonucleotide Reductase Regulatory TP53 Inducible Subunit M2B
Q8NEA6 GLIS Family Zinc Finger 3
Q8NFD5 AT-Rich Interaction Domain 1B
Q8NFI6 Prokineticin Receptor 2
Q969F8 KISS1 Receptor
Q96L73 Nuclear Receptor Binding SET Domain Protein 1
Q96RR1 Twinkle MtDNA Helicase
Q99259 Glutamate Decarboxylase 1
Q9H251 Cadherin Related 23
Q9H3D4 Tumor Protein P63

Q9HC23	Prokineticin 2
Q9HCR9	Phosphodiesterase 11A
Q9P2D1	Chromodomain Helicase DNA Binding Protein 7
Q9UBU3	Ghrelin And Obestatin Prepropeptide
Q9Y2R2	Protein Tyrosine Phosphatase, Non-Receptor Type 22

Supplementary Table S4. The information of enzymes for metabonomic biomarkers

UniProt Gene ID	Kegg Gene Name	Gene	Organism	Status	Function	
A5PLL0	1375 has1375	CPT1B protein	CPT1B	Homo sapiens (Human)	Unreviewed(TrEMBL)	Acyltransferase
A6NH11		Glycolipid transfer protein domain-containing prote	GLTPD2	Homo sapiens (Human)	Reviewed(Swiss-Prot)	Intermembrane lipid transfer activity
A8YXX4	2752 has2752	Glutamine synthetase	PIG59	Homo sapiens (Human)	Unreviewed(TrEMBL)	Ligase
B5MDU3		Pleckstrin homology domain-containing family A n	PLEKHA8	Homo sapiens (Human)	Unreviewed(TrEMBL)	Intermembrane lipid transfer activity
O00154	11332 has11332	Cytosolic acyl coenzyme A thioester hydrolase	ACOT7	Homo sapiens (Human)	Reviewed(Swiss-Prot)	Hydrolase, Serine esterase
O00748	8824 has8824	Cocaine esterase	CES2	Homo sapiens (Human)	Reviewed(Swiss-Prot)	Hydrolase, Serine esterase
O14734	10005 has10005	Acyl-coenzyme A thioesterase 8	ACOT8	Homo sapiens (Human)	Reviewed(Swiss-Prot)	Hydrolase, Serine esterase
O14939	5338 has5338	Phospholipase D2	PLD2	Homo sapiens (Human)	Reviewed(Swiss-Prot)	Hydrolase
O15067	5198 has5198	Phosphoribosylformylglycinamidine synthase	PFAS	Homo sapiens (Human)	Reviewed(Swiss-Prot)	Ligase
O15245		Solute carrier family 22 member 1	SLC22A1	Homo sapiens (Human)	Reviewed(Swiss-Prot)	Acetylcholine transmembrane transp
O15382	587 has587	Branched-chain-amino-acid aminotransferase, mito	BCAT2	Homo sapiens (Human)	Reviewed(Swiss-Prot)	Aminotransferase, Transferase
O15496	8399 has8399	Group 10 secretory phospholipase A2	PLA2G10	Homo sapiens (Human)	Reviewed(Swiss-Prot)	Hydrolase
O43280	11181 has11181	Trehalase	TREH	Homo sapiens (Human)	Reviewed(Swiss-Prot)	Glycosidase, Hydrolase
O43292	8733 has8733	Glycosylphosphatidylinositol anchor attachment 1 r	GPAA1	Homo sapiens (Human)	Reviewed(Swiss-Prot)	Tubulin binding
O43451	8972 has8972	Maltase-glucoamylase, intestinal	MGAM	Homo sapiens (Human)	Reviewed(Swiss-Prot)	Glycosidase, Hydrolase, Multifunctio
O43548	9333 has9333	Protein-glutamine gamma-glutamyltransferase 5	TGM5	Homo sapiens (Human)	Reviewed(Swiss-Prot)	Acyltransferase, Transferase
O43716	283459 has283459	Glutamyl-tRNA(Gln) amidotransferase subunit C, r	GATC	Homo sapiens (Human)	Reviewed(Swiss-Prot)	Ligase
O60391	116444 has116444	Glutamate receptor ionotropic, NMDA 3B	GRIN3B	Homo sapiens (Human)	Reviewed(Swiss-Prot)	Ion channel, Ligand-gated ion chann
O60733	8398 has8398	85/88 kDa calcium-independent phospholipase A2	PLA2G6	Homo sapiens (Human)	Reviewed(Swiss-Prot)	Calmodulin-binding, Hydrolase
O60909	8704 has8704	Beta-1,4-galactosyltransferase 2	B4GALT2	Homo sapiens (Human)	Reviewed(Swiss-Prot)	Glycosyltransferase, Transferase
O75311	8001 has8001	Glycine receptor subunit alpha-3	GLRA3	Homo sapiens (Human)	Reviewed(Swiss-Prot)	Chloride channel, Ion channel, Ligan
O75390	1431 has1431	Citrate synthase, mitochondrial	CS	Homo sapiens (Human)	Reviewed(Swiss-Prot)	
O75594	8993 has8993	Peptidoglycan recognition protein 1	PGLYRP1	Homo sapiens (Human)	Reviewed(Swiss-Prot)	Antibiotic, Antimicrobial
O75600	23464 has23464	2-amino-3-ketobutyrate coenzyme A ligase, mitoch	GCAT	Homo sapiens (Human)	Reviewed(Swiss-Prot)	Acyltransferase, Transferase
O75608	10434 has10434	Acyl-protein thioesterase 1	LYPLA1	Homo sapiens (Human)	Reviewed(Swiss-Prot)	Hydrolase
O75879	5188 has5188	Glutamyl-tRNA(Gln) amidotransferase subunit B, r	PET112	Homo sapiens (Human)	Reviewed(Swiss-Prot)	Ligase
O76074	8654 has8654	cGMP-specific 3',5'-cyclic phosphodiesterase	PDE5A	Homo sapiens (Human)	Reviewed(Swiss-Prot)	Allosteric enzyme, Hydrolase
O94808	9945 has9945	Glutamine--fructose-6-phosphate aminotransferase	GFPT2	Homo sapiens (Human)	Reviewed(Swiss-Prot)	Aminotransferase, Transferase
O94925	2744 has2744	Glutaminase kidney isoform, mitochondrial	GLS	Homo sapiens (Human)	Reviewed(Swiss-Prot)	Hydrolase
O94956	11309 has11309	Solute carrier organic anion transporter family mem	SLCO2B1	Homo sapiens (Human)	Reviewed(Swiss-Prot)	Bile acid transmembrane transporter
O95363	10667 has10667	Phenylalanine--tRNA ligase, mitochondrial	FARS2	Homo sapiens (Human)	Reviewed(Swiss-Prot)	Aminoacyl-tRNA synthetase, Ligase
O95372	11313 has11313	Acyl-protein thioesterase 2	LYPLA2	Homo sapiens (Human)	Reviewed(Swiss-Prot)	Hydrolase
O95397		Protein PLEKHA9	PLEKHA9	Homo sapiens (Human)	Reviewed(Swiss-Prot)	Intermembrane lipid transfer activity
O95427	23556 has23556	GPI ethanolamine phosphate transferase 1	PIGN	Homo sapiens (Human)	Reviewed(Swiss-Prot)	Transferase
O95932	343641 has343641	Protein-glutamine gamma-glutamyltransferase 6	TGM6	Homo sapiens (Human)	Reviewed(Swiss-Prot)	Acyltransferase, Transferase
P00325	125 has125	Alcohol dehydrogenase 1B	ADH1B	Homo sapiens (Human)	Reviewed(Swiss-Prot)	Oxidoreductase
P00326	126 has126	Alcohol dehydrogenase 1C	ADH1C	Homo sapiens (Human)	Reviewed(Swiss-Prot)	Oxidoreductase
P00338	3939 has3939	L-lactate dehydrogenase A chain	LDHA	Homo sapiens (Human)	Reviewed(Swiss-Prot)	Oxidoreductase
P00439	5053 has5053	Phenylalanine-4-hydroxylase	PAH	Homo sapiens (Human)	Reviewed(Swiss-Prot)	Allosteric enzyme, Monooxygenase,
P00488	2162 has2162	Coagulation factor XIII A chain	F13A1	Homo sapiens (Human)	Reviewed(Swiss-Prot)	Acyltransferase, Transferase
P00505	2806 has2806	Aspartate aminotransferase, mitochondrial	GOT2	Homo sapiens (Human)	Reviewed(Swiss-Prot)	Aminotransferase, Transferase
P00709	3906 has3906	Alpha-lactalbumin	LALBA	Homo sapiens (Human)	Reviewed(Swiss-Prot)	Milk protein
P00918	760 has760	Carbonic anhydrase 2	CA2	Homo sapiens (Human)	Reviewed(Swiss-Prot)	Lyase
P03950	283 has283	Angiogenin	ANG	Homo sapiens (Human)	Reviewed(Swiss-Prot)	Actin binding
P04054	5319 has5319	Phospholipase A2	PLA2G1B	Homo sapiens (Human)	Reviewed(Swiss-Prot)	Function Hydrolase
P04062	2629 has2629	Glucosylceramidase	GBA	Homo sapiens (Human)	Reviewed(Swiss-Prot)	Glycosidase, Hydrolase

P04180	3931 has3931	Phosphatidylcholine-sterol acyltransferase	LCAT	Homo sapiens (Human)	Reviewed(Swiss-Prot)	Acyltransferase, Transferase
P05089	383 has383	Arginase-1	ARG1	Homo sapiens (Human)	Reviewed(Swiss-Prot)	Hydrolase
P05091	217 has217	Aldehyde dehydrogenase, mitochondrial	ALDH2	Homo sapiens (Human)	Reviewed(Swiss-Prot)	Oxidoreductase
P05164	4353 has4353	Myeloperoxidase	MPO	Homo sapiens (Human)	Reviewed(Swiss-Prot)	Oxidoreductase, Peroxidase
P05166	5096 has5096	Propionyl-CoA carboxylase beta chain, mitochondr	PCCB	Homo sapiens (Human)	Reviewed(Swiss-Prot)	Ligase
P06126	909 has909	T-cell surface glycoprotein CD1a	CD1A	Homo sapiens (Human)	Reviewed(Swiss-Prot)	Beta-2-microglobulin binding
P06276	590 has590	Cholinesterase	BCHE	Homo sapiens (Human)	Reviewed(Swiss-Prot)	Hydrolase, Serine esterase
P06280	2717 has2717	Alpha-galactosidase A	GLA	Homo sapiens (Human)	Reviewed(Swiss-Prot)	Glycosidase, Hydrolase
P06744	2821 has2821	Glucose-6-phosphate isomerase	GPI	Homo sapiens (Human)	Reviewed(Swiss-Prot)	Cytokine, Growth factor, Isomerase
P06858	4023 has4023	Lipoprotein lipase	LPL	Homo sapiens (Human)	Reviewed(Swiss-Prot)	Heparin-binding, Hydrolase
P07098	8513 has8513	Gastric triacylglycerol lipase	LIPF	Homo sapiens (Human)	Reviewed(Swiss-Prot)	Hydrolase
P07101	7054 has7054	Tyrosine 3-monooxygenase	TH	Homo sapiens (Human)	Reviewed(Swiss-Prot)	Monooxygenase, Oxidoreductase
P07195	3945 has3945	L-lactate dehydrogenase B chain	LDHB	Homo sapiens (Human)	Reviewed(Swiss-Prot)	Oxidoreductase
P07311	97 has97	Acylphosphatase-1	ACYP1	Homo sapiens (Human)	Reviewed(Swiss-Prot)	Hydrolase
P07311	97 has97	Acylphosphatase-1	ACYP1	Homo sapiens (Human)	Reviewed(Swiss-Prot)	Hydrolase
P07327	124 has124	Alcohol dehydrogenase 1A	ADH1A	Homo sapiens (Human)	Reviewed(Swiss-Prot)	Oxidoreductase
P07741	353 has353	Adenine phosphoribosyltransferase	APRT	Homo sapiens (Human)	Reviewed(Swiss-Prot)	Glycosyltransferase, Transferase
P07864	3948 has3948	L-lactate dehydrogenase C chain	LDHC	Homo sapiens (Human)	Reviewed(Swiss-Prot)	Oxidoreductase
P07998	6035 has6035	Ribonuclease pancreatic	RNASE1	Homo sapiens (Human)	Reviewed(Swiss-Prot)	Endonuclease activity
P08243	440 has440	Asparagine synthetase [glutamine-hydrolyzing]	ASNS	Homo sapiens (Human)	Reviewed(Swiss-Prot)	Ligase
P09848	3938 has3938	Lactase-phlorizin hydrolase	LCT	Homo sapiens (Human)	Reviewed(Swiss-Prot)	Glycosidase, Hydrolase, Multifunctio
POC7U2		Putative neutral ceramidase C	ASAH2C	Homo sapiens (Human)	Reviewed(Swiss-Prot)	
POC869	1001370.hsa:1001370	Cytosolic phospholipase A2 beta	PLA2G4B	Homo sapiens (Human)	Reviewed(Swiss-Prot)	Hydrolase
P10253	2548 has2548	Lysosomal alpha-glucosidase	GAA	Homo sapiens (Human)	Reviewed(Swiss-Prot)	Glycosidase, Hydrolase
P10265	has	HERV-K_5q33.3 provirus ancestral Pro protein		Homo sapiens (Human)	Reviewed(Swiss-Prot)	Aspartyl protease, Hydrolase, Protea
P11150	3990 has3990	Hepatic triacylglycerol lipase	LIPC	Homo sapiens (Human)	Reviewed(Swiss-Prot)	
P11166	6513 has6513	Solute carrier family 2, facilitated glucose transport	SLC2A1	Homo sapiens (Human)	Reviewed(Swiss-Prot)	Dehydroascorbic acid transmembran
P11678	8288 has8288	Eosinophil peroxidase	EPX	Homo sapiens (Human)	Reviewed(Swiss-Prot)	Oxidoreductase, Peroxidase
P11766	128 has128	Alcohol dehydrogenase class-3	ADH5	Homo sapiens (Human)	Reviewed(Swiss-Prot)	Oxidoreductase
P12724	6037 has6037	Eosinophil cationic protein	RNASE3	Homo sapiens (Human)	Reviewed(Swiss-Prot)	Endonuclease activity
P12931	6714 has6714	Proto-oncogene tyrosine-protein kinase Src	SRC	Homo sapiens (Human)	Reviewed(Swiss-Prot)	Kinase, Transferase, Tyrosine-protein
P12931	6714 has6714	Proto-oncogene tyrosine-protein kinase Src	SRC	Homo sapiens (Human)	Reviewed(Swiss-Prot)	ATP binding
P13196	211 has211	5-aminolevulinatase synthase, nonspecific, mitochondr	ALAS1	Homo sapiens (Human)	Reviewed(Swiss-Prot)	Acyltransferase, Transferase
P14174	4282 has4282	Macrophage migration inhibitory factor	MIF	Homo sapiens (Human)	Reviewed(Swiss-Prot)	Chemoattractant activity
P14410	6476 has6476	Sucrase-isomaltase, intestinal	SI	Homo sapiens (Human)	Reviewed(Swiss-Prot)	Glycosidase, Hydrolase, Multifunctio
P14555	5320 has5320	Phospholipase A2, membrane associated	PLA2G2A	Homo sapiens (Human)	Reviewed(Swiss-Prot)	Hydrolase
P14621	98 has98	Acylphosphatase-2	ACYP2	Homo sapiens (Human)	Reviewed(Swiss-Prot)	Hydrolase
P14621	98 has98	Acylphosphatase-2	ACYP2	Homo sapiens (Human)	Reviewed(Swiss-Prot)	Hydrolase
P14920	1610 has1610	D-amino-acid oxidase	DAO	Homo sapiens (Human)	Reviewed(Swiss-Prot)	Oxidoreductase
P15086	1360 has1360	Carboxypeptidase B	CPB1	Homo sapiens (Human)	Reviewed(Swiss-Prot)	Carboxypeptidase, Hydrolase, Metall
P15104	2752 has2752	Glutamine synthetase	GLUL	Homo sapiens (Human)	Reviewed(Swiss-Prot)	Ligase, Lyase
P15121	231 has231	Aldose reductase	AKR1B1	Homo sapiens (Human)	Reviewed(Swiss-Prot)	Oxidoreductase
P15144	290 has290	Aminopeptidase N	ANPEP	Homo sapiens (Human)	Reviewed(Swiss-Prot)	Aminopeptidase, Developmental prot
P15291	2683 has2683	Beta-1,4-galactosyltransferase 1	B4GALT1	Homo sapiens (Human)	Reviewed(Swiss-Prot)	Glycosyltransferase, Transferase
P15812	913 has913	T-cell surface glycoprotein CD1e, membrane-assoc	CD1E	Homo sapiens (Human)	Reviewed(Swiss-Prot)	Beta-3-microglobulin binding
P15813	912 has912	Antigen-presenting glycoprotein CD1d	CD1D	Homo sapiens (Human)	Reviewed(Swiss-Prot)	Beta-4-microglobulin binding
P16233	5406 has5406	Pancreatic triacylglycerol lipase	PNLIP	Homo sapiens (Human)	Reviewed(Swiss-Prot)	Hydrolase
P17174		Aspartate aminotransferase, cytoplasmic	GOT1	Homo sapiens (Human)	Reviewed(Swiss-Prot)	Aminotransferase, Transferase

P17735	6898 has6898	Tyrosine aminotransferase	TAT	Homo sapiens (Human)	Reviewed(Swiss-Prot)	Aminotransferase, Transferase
P17812	1503 has1503	CTP synthase 1	CTPS1	Homo sapiens (Human)	Reviewed(Swiss-Prot)	Ligase
P17900	2760 has2760	Ganglioside GM2 activator	GM2A	Homo sapiens (Human)	Reviewed(Swiss-Prot)	Hydrolase
P18428	3929 has3929	Lipopolysaccharide-binding protein	LBP	Homo sapiens (Human)	Reviewed(Swiss-Prot)	Antibiotic, Antimicrobial
P19367	3098 has3098	Hexokinase-1	HK1	Homo sapiens (Human)	Reviewed(Swiss-Prot)	Allosteric enzyme, Kinase, Transferase
P19835		Bile salt-activated lipase	CEL	Homo sapiens (Human)	Reviewed(Swiss-Prot)	Hydrolase, Serine esterase
P20711	1644 has1644	Aromatic-L-amino-acid decarboxylase	DDC	Homo sapiens (Human)	Reviewed(Swiss-Prot)	Decarboxylase, Lyase
P21399	48 has48	Cytoplasmic aconitate hydratase	ACO1	Homo sapiens (Human)	Reviewed(Swiss-Prot)	
P21549	189 has189	Serine--pyruvate aminotransferase	AGXT	Homo sapiens (Human)	Reviewed(Swiss-Prot)	Aminotransferase, Transferase
P21549	189 has189	Serine--pyruvate aminotransferase	AGXT	Homo sapiens (Human)	Reviewed(Swiss-Prot)	Aminotransferase, Transferase
P21964	1312 has1312	Catechol O-methyltransferase	COMT	Homo sapiens (Human)	Reviewed(Swiss-Prot)	Methyltransferase, Transferase
P21980	7052 has7052	Protein-glutamine gamma-glutamyltransferase 2	TGM2	Homo sapiens (Human)	Reviewed(Swiss-Prot)	Acyltransferase, Transferase
P22079	4025 has4025	Lactoperoxidase	LPO	Homo sapiens (Human)	Reviewed(Swiss-Prot)	Antimicrobial, Oxidoreductase, Peroxidase
P22102	2618 has2618	Trifunctional purine biosynthetic protein adenosine GART	GART	Homo sapiens (Human)	Reviewed(Swiss-Prot)	Ligase, Multifunctional enzyme, Transferase
P22303	43 has43	Acetylcholinesterase	ACHE	Homo sapiens (Human)	Reviewed(Swiss-Prot)	Blood group antigen, Hydrolase, Serine esterase
P22557	212 has212	5-aminolevulinic acid synthase, erythroid-specific, mitochondrial	ALAS2	Homo sapiens (Human)	Reviewed(Swiss-Prot)	Acyltransferase, Transferase
P22735	7051 has7051	Protein-glutamine gamma-glutamyltransferase K	TGM1	Homo sapiens (Human)	Reviewed(Swiss-Prot)	Acyltransferase, Transferase
P23141	1066 has1066	Liver carboxylesterase 1	CES1	Homo sapiens (Human)	Reviewed(Swiss-Prot)	Hydrolase, Serine esterase
P23378	2731 has2731	Glycine dehydrogenase (decarboxylating), mitochondrial	GLDC	Homo sapiens (Human)	Reviewed(Swiss-Prot)	Oxidoreductase
P23415	2741 has2741	Glycine receptor subunit alpha-1	GLRA1	Homo sapiens (Human)	Reviewed(Swiss-Prot)	Chloride channel, Ion channel, Ligand-gated ion channel
P23416	2742 has2742	Glycine receptor subunit alpha-2	GLRA2	Homo sapiens (Human)	Reviewed(Swiss-Prot)	Chloride channel, Ion channel, Ligand-gated ion channel
P23434	2653 has2653	Glycine cleavage system H protein, mitochondrial	GCSH	Homo sapiens (Human)	Reviewed(Swiss-Prot)	Aminomethyltransferase activity
P24298	2875 has2875	Alanine aminotransferase 1	GPT	Homo sapiens (Human)	Reviewed(Swiss-Prot)	Aminotransferase, Transferase
P26640	7407 has7407	Valine--tRNA ligase	VARS	Homo sapiens (Human)	Reviewed(Swiss-Prot)	Aminoacyl-tRNA synthetase, Ligase
P27708	790 has790	CAD protein	CAD	Homo sapiens (Human)	Reviewed(Swiss-Prot)	Allosteric enzyme, Hydrolase, Ligase
P28329	1103 has1103	Choline O-acetyltransferase	CHAT	Homo sapiens (Human)	Reviewed(Swiss-Prot)	Acyltransferase, Transferase
P28332	130 has130	Alcohol dehydrogenase 6	ADH6	Homo sapiens (Human)	Reviewed(Swiss-Prot)	Oxidoreductase
P28838	51056 has51056	Cytosol aminopeptidase	LAP3	Homo sapiens (Human)	Reviewed(Swiss-Prot)	Aminopeptidase, Hydrolase, Protease
P29016	910 has910	T-cell surface glycoprotein CD1b	CD1B	Homo sapiens (Human)	Reviewed(Swiss-Prot)	Beta-5-microglobulin binding
P29017	911 has911	T-cell surface glycoprotein CD1c	CD1C	Homo sapiens (Human)	Reviewed(Swiss-Prot)	Beta-6-microglobulin binding
P30041	9588 has9588	Peroxiredoxin-6	PRDX6	Homo sapiens (Human)	Reviewed(Swiss-Prot)	Antioxidant, Hydrolase, Multifunctional enzyme
P30837	219 has219	Aldehyde dehydrogenase X, mitochondrial	ALDH1B1	Homo sapiens (Human)	Reviewed(Swiss-Prot)	Oxidoreductase
P31512	2329 has2329	Dimethylaniline monooxygenase [N-oxide-forming]	FMO4	Homo sapiens (Human)	Reviewed(Swiss-Prot)	Monooxygenase, Oxidoreductase
P31513	2328 has2328	Dimethylaniline monooxygenase [N-oxide-forming]	FMO3	Homo sapiens (Human)	Reviewed(Swiss-Prot)	Monooxygenase, Oxidoreductase
P32929	1491 has1491	Cystathionine gamma-lyase	CTH	Homo sapiens (Human)	Reviewed(Swiss-Prot)	Calmodulin-binding, Lyase
P34896	6470 has6470	Serine hydroxymethyltransferase, cytosolic	SHMT1	Homo sapiens (Human)	Reviewed(Swiss-Prot)	Transferase
P34897	6472 has6472	Serine hydroxymethyltransferase, mitochondrial	SHMT2	Homo sapiens (Human)	Reviewed(Swiss-Prot)	Transferase
P35222		Catenin beta-1	CTNNB1	Homo sapiens (Human)	Reviewed(Swiss-Prot)	
P35520	875 has875	Cystathionine beta-synthase	CBS	Homo sapiens (Human)	Reviewed(Swiss-Prot)	Allosteric enzyme, Lyase
P35557	2645 has2645	Glucokinase	GCK	Homo sapiens (Human)	Reviewed(Swiss-Prot)	Allosteric enzyme, Kinase, Transferase
P35573	178 has178	Glycogen debranching enzyme	AGL	Homo sapiens (Human)	Reviewed(Swiss-Prot)	Glycosidase, Glycosyltransferase, Hydrolase
P35575	2538 has2538	Glucose-6-phosphatase	G6PC	Homo sapiens (Human)	Reviewed(Swiss-Prot)	Hydrolase
P35790	1119 has1119	Choline kinase alpha	CHKA	Homo sapiens (Human)	Reviewed(Swiss-Prot)	Kinase, Transferase
P36871	5236 has5236	Phosphoglucomutase-1	PGM1	Homo sapiens (Human)	Reviewed(Swiss-Prot)	Isomerase
P37231	5468 has5468	Peroxisome proliferator-activated receptor gamma	PPARG	Homo sapiens (Human)	Reviewed(Swiss-Prot)	
P37287	5277 has5277	Phosphatidylinositol N-acetylglucosaminyltransferase	PIGA	Homo sapiens (Human)	Reviewed(Swiss-Prot)	Glycosyltransferase, Transferase
P39877	5322 has5322	Calcium-dependent phospholipase A2	PLA2G5	Homo sapiens (Human)	Reviewed(Swiss-Prot)	Hydrolase
P40394	131 has131	Alcohol dehydrogenase class 4 mu/sigma chain	ADH7	Homo sapiens (Human)	Reviewed(Swiss-Prot)	Oxidoreductase

P40926	4191 has4191	Malate dehydrogenase, mitochondrial	MDH2	Homo sapiens (Human)	Reviewed(Swiss-Prot)	Oxidoreductase
P41247	8228 has8228	Patatin-like phospholipase domain-containing prote	PNPLA4	Homo sapiens (Human)	Reviewed(Swiss-Prot)	Hydrolase
P41250	2617 has2617	Glycine--tRNA ligase	GARS	Homo sapiens (Human)	Reviewed(Swiss-Prot)	Aminoacyl-tRNA synthetase, Hydrol
P43007	6509 has6509	Neutral amino acid transporter A	SLC1A4	Homo sapiens (Human)	Reviewed(Swiss-Prot)	Amino acid transmembrane transport
P45381	443 has443	Aspartoacylase	ASPA	Homo sapiens (Human)	Reviewed(Swiss-Prot)	Hydrolase
P47712	5321 has5321	Cytosolic phospholipase A2	PLA2G4A	Homo sapiens (Human)	Reviewed(Swiss-Prot)	Hydrolase
P47895	220 has220	Aldehyde dehydrogenase family 1 member A3	ALDH1A3	Homo sapiens (Human)	Reviewed(Swiss-Prot)	Oxidoreductase
P47897	5859 has5859	Glutamine--tRNA ligase	QARS	Homo sapiens (Human)	Reviewed(Swiss-Prot)	Aminoacyl-tRNA synthetase, Ligase
P48067	6536 has6536	Sodium- and chloride-dependent glycine transporte	SLC6A9	Homo sapiens (Human)	Reviewed(Swiss-Prot)	Glycine:sodium symporter activity
P48167	2743 has2743	Glycine receptor subunit beta	GLRB	Homo sapiens (Human)	Reviewed(Swiss-Prot)	Chloride channel, Ion channel, Ligan
P48637	2937 has2937	Glutathione synthetase	GSS	Homo sapiens (Human)	Reviewed(Swiss-Prot)	Ligase
P48728	275 has275	Aminomethyltransferase, mitochondrial	AMT	Homo sapiens (Human)	Reviewed(Swiss-Prot)	Aminotransferase, Transferase
P49189	223 has223	4-trimethylaminobutyraldehyde dehydrogenase	ALDH9A1	Homo sapiens (Human)	Reviewed(Swiss-Prot)	Oxidoreductase
P49221	7047 has7047	Protein-glutamine gamma-glutamyltransferase 4	TGM4	Homo sapiens (Human)	Reviewed(Swiss-Prot)	Acyltransferase, Transferase
P49326	2330 has2330	Dimethylaniline monooxygenase [N-oxide-forming	FMO5	Homo sapiens (Human)	Reviewed(Swiss-Prot)	Monooxygenase, Oxidoreductase
P49327	2194 has2194	Fatty acid synthase	FASN	Homo sapiens (Human)	Reviewed(Swiss-Prot)	Hydrolase, Lyase, Multifunctional en
P49419	501 has501	Alpha-aminoadipic semialdehyde dehydrogenase	ALDH7A1	Homo sapiens (Human)	Reviewed(Swiss-Prot)	Oxidoreductase
P49585	5130 has5130	Choline-phosphate cytidyltransferase A	PCYT1A	Homo sapiens (Human)	Reviewed(Swiss-Prot)	Nucleotidyltransferase, Transferase
P49588	16 has16	Alanine--tRNA ligase, cytoplasmic	AARS	Homo sapiens (Human)	Reviewed(Swiss-Prot)	Aminoacyl-tRNA synthetase, Ligase,
P49753	10965 has10965	Acyl-coenzyme A thioesterase 2, mitochondrial	ACOT2	Homo sapiens (Human)	Reviewed(Swiss-Prot)	Hydrolase, Serine esterase
P49915	8833 has8833	GMP synthase [glutamine-hydrolyzing]	GMPS	Homo sapiens (Human)	Reviewed(Swiss-Prot)	Ligase
P50440	2628 has2628	Glycine amidinotransferase, mitochondrial	GATM	Homo sapiens (Human)	Reviewed(Swiss-Prot)	Transferase
P51648	224 has224	Fatty aldehyde dehydrogenase	ALDH3A2	Homo sapiens (Human)	Reviewed(Swiss-Prot)	Oxidoreductase
P52789	3099 has3099	Hexokinase-2	HK2	Homo sapiens (Human)	Reviewed(Swiss-Prot)	Allosteric enzyme, Kinase, Transfera
P52790	3101 has3101	Hexokinase-3	HK3	Homo sapiens (Human)	Reviewed(Swiss-Prot)	Allosteric enzyme, Kinase, Transfera
P53396	47 has47	ATP-citrate synthase	ACLY	Homo sapiens (Human)	Reviewed(Swiss-Prot)	ATP binding
P54315	5407 has5407	Inactive pancreatic lipase-related protein 1	PNLIPRP1	Homo sapiens (Human)	Reviewed(Swiss-Prot)	Calcium ion binding
P54317	5408 has5408	Pancreatic lipase-related protein 2	PNLIPRP2	Homo sapiens (Human)	Reviewed(Swiss-Prot)	Hydrolase
P54687	586 has586	Branched-chain-amino-acid aminotransferase, cyto	BCAT1	Homo sapiens (Human)	Reviewed(Swiss-Prot)	Aminotransferase, Transferase
P57054	51227 has51227	Phosphatidylinositol N-acetylglucosaminyltransfera	PIGP	Homo sapiens (Human)	Reviewed(Swiss-Prot)	Glycosyltransferase, Transferase
P61916	10577 has10577	Epididymal secretory protein E1	NPC2	Homo sapiens (Human)	Reviewed(Swiss-Prot)	Cholesterol binding
P68402	5049 has5049	Platelet-activating factor acetylhydrolase IB subuni	PAFAH1B2	Homo sapiens (Human)	Reviewed(Swiss-Prot)	Hydrolase
P78540	384 has384	Arginase-2, mitochondrial	ARG2	Homo sapiens (Human)	Reviewed(Swiss-Prot)	Hydrolase
P80404	18 has18	4-aminobutyrate aminotransferase, mitochondrial	ABAT	Homo sapiens (Human)	Reviewed(Swiss-Prot)	Aminotransferase, Transferase
Q01740	2326 has2326	Dimethylaniline monooxygenase [N-oxide-forming	FMO1	Homo sapiens (Human)	Reviewed(Swiss-Prot)	Monooxygenase, Oxidoreductase
Q03154	95 has95	Aminoacylase-1	ACY1	Homo sapiens (Human)	Reviewed(Swiss-Prot)	Hydrolase
Q05315	1178 has1178	Eosinophil lysophospholipase	CLC	Homo sapiens (Human)	Reviewed(Swiss-Prot)	Carbohydrate binding
Q05469	3991 has3991	Hormone-sensitive lipase	LIPE	Homo sapiens (Human)	Reviewed(Swiss-Prot)	Hydrolase
Q06203	5471 has5471	Amidophosphoribosyltransferase	PPAT	Homo sapiens (Human)	Reviewed(Swiss-Prot)	Allosteric enzyme, Glycosyltransfera
Q06210	2673 has2673	Glutamine--fructose-6-phosphate aminotransferase	GFPT1	Homo sapiens (Human)	Reviewed(Swiss-Prot)	Aminotransferase, Transferase
Q07326	5281 has5281	Phosphatidylinositol-glycan biosynthesis class F pr	PIGF	Homo sapiens (Human)	Reviewed(Swiss-Prot)	Ethanolaminophosphotransferase acti
Q08188	7053 has7053	Protein-glutamine gamma-glutamyltransferase E	TGM3	Homo sapiens (Human)	Reviewed(Swiss-Prot)	Acyltransferase, Transferase
Q12879	2903 has2903	Glutamate receptor ionotropic, NMDA 2A	GRIN2A	Homo sapiens (Human)	Reviewed(Swiss-Prot)	Ion channel, Ligand-gated ion chann
Q13093	7941 has7941	Platelet-activating factor acetylhydrolase	PLA2G7	Homo sapiens (Human)	Reviewed(Swiss-Prot)	Hydrolase
Q13336	6563 has6563	Urea transporter 1	SLC14A1	Homo sapiens (Human)	Reviewed(Swiss-Prot)	Blood group antigen
Q13393	5337 has5337	Phospholipase D1	PLD1	Homo sapiens (Human)	Reviewed(Swiss-Prot)	Hydrolase
Q13510	427 has427	Acid ceramidase	ASAH1	Homo sapiens (Human)	Reviewed(Swiss-Prot)	Hydrolase
Q13724	7841 has7841	Mannosyl-oligosaccharide glucosidase	MOGS	Homo sapiens (Human)	Reviewed(Swiss-Prot)	Glycosidase, Hydrolase

Q14032	570	has570	Bile acid-CoA:amino acid N-acyltransferase	BAAT	Homo sapiens (Human)	Reviewed(Swiss-Prot)	Acyltransferase, Hydrolase, Serine es
Q14330	2841	has2841	N-arachidonyl glycine receptor	GPR18	Homo sapiens (Human)	Reviewed(Swiss-Prot)	G-protein coupled receptor, Receptor
Q14397	2646	has2646	Glucokinase regulatory protein	GCKR	Homo sapiens (Human)	Reviewed(Swiss-Prot)	Fructose-6-phosphate binding
Q14442	5283	has5283	Phosphatidylinositol N-acetylglucosaminyltransferase	PIGH	Homo sapiens (Human)	Reviewed(Swiss-Prot)	Glycosyltransferase, Transferase
Q14697	23193	has23193	Neutral alpha-glucosidase AB	GANAB	Homo sapiens (Human)	Reviewed(Swiss-Prot)	Glycosidase, Hydrolase
Q14749	27232	has27232	Glycine N-methyltransferase	GNMT	Homo sapiens (Human)	Reviewed(Swiss-Prot)	Methyltransferase, Transferase
Q14749	27232	has27232	Glycine N-methyltransferase	GNMT	Homo sapiens (Human)	Reviewed(Swiss-Prot)	Methyltransferase, Transferase
Q14957	2905	has2905	Glutamate receptor ionotropic, NMDA 2C	GRIN2C	Homo sapiens (Human)	Reviewed(Swiss-Prot)	Ion channel, Ligand-gated ion channel
Q15102	5050	has5050	Platelet-activating factor acetylhydrolase IB subunit	PAFAH1B3	Homo sapiens (Human)	Reviewed(Swiss-Prot)	Hydrolase
Q15758	6510	has6510	Neutral amino acid transporter B(0)	SLC1A5	Homo sapiens (Human)	Reviewed(Swiss-Prot)	Host cell receptor for virus entry, Receptor
Q15849	8170	has8170	Urea transporter 2	SLC14A2	Homo sapiens (Human)	Reviewed(Swiss-Prot)	Cell adhesion molecule binding
Q16719	8942	has8942	Kynureninase	KYNU	Homo sapiens (Human)	Reviewed(Swiss-Prot)	Hydrolase
Q16773	883	has883	Kynurenine--oxoglutarate transaminase 1	CCBL1	Homo sapiens (Human)	Reviewed(Swiss-Prot)	Aminotransferase, Lyase, Transferase
Q17RR3	119548	has119548	Pancreatic lipase-related protein 3	PNLIPRP3	Homo sapiens (Human)	Reviewed(Swiss-Prot)	Hydrolase
Q2TB90	80201	has80201	Putative hexokinase HKDC1	HKDC1	Homo sapiens (Human)	Reviewed(Swiss-Prot)	Kinase, Transferase
Q3MJ16	123745	has123745	Cytosolic phospholipase A2 epsilon	PLA2G4E	Homo sapiens (Human)	Reviewed(Swiss-Prot)	Hydrolase
Q3MUY	84992	has84992	Phosphatidylinositol N-acetylglucosaminyltransferase	PIGY	Homo sapiens (Human)	Reviewed(Swiss-Prot)	
Q53ET4			Serine hydroxymethyltransferase	N/A	Homo sapiens (Human)	Reviewed(Swiss-Prot)	Methyltransferase, Transferase
Q53EW1			Peroxisome proliferative activated receptor gamma isoform 2 variant		Homo sapiens (Human)	Reviewed(Swiss-Prot)	
Q53FV7	1375	has1375	Carnitine palmitoyltransferase 1B isoform a variant		Homo sapiens (Human)	Reviewed(Swiss-Prot)	Acyltransferase, Transferase
Q53GD3	80736	has80736	Choline transporter-like protein 4	SLC44A4	Homo sapiens (Human)	Reviewed(Swiss-Prot)	Choline transmembrane transporter
Q59EA4	5337	has5337	Submitted name: Phospholipase D1 variant	N/A	Homo sapiens (Human)	Unreviewed(TrEMBL)	Phosphatidylinositol binding
Q5BJF5	6472	has6472	Serine hydroxymethyltransferase	SHMT2	Homo sapiens (Human)	Reviewed(Swiss-Prot)	Transferase
Q5H8A4	54872	has54872	GPI ethanolamine phosphate transferase 2	PIGG	Homo sapiens (Human)	Reviewed(Swiss-Prot)	Transferase
Q5HYG8	6472	has6472	Serine hydroxymethyltransferase	DKFZp686I	Homo sapiens (Human)	Reviewed(Swiss-Prot)	Transferase
Q5JTZ9	57505	has57505	Alanine--tRNA ligase, mitochondrial	AARS2	Homo sapiens (Human)	Reviewed(Swiss-Prot)	Aminoacyl-tRNA synthetase, Ligase,
Q5K4L6	11000	has11000	Long-chain fatty acid transport protein 3	SLC27A3	Homo sapiens (Human)	Reviewed(Swiss-Prot)	Ligase
Q5QJU3	340485	has340485	Alkaline ceramidase 2	ACER2	Homo sapiens (Human)	Reviewed(Swiss-Prot)	Hydrolase
Q5ST30	57176	has57176	Valine--tRNA ligase, mitochondrial	VARS2	Homo sapiens (Human)	Reviewed(Swiss-Prot)	Aminoacyl-tRNA synthetase, Ligase
Q5T6X5	222545	has222545	G-protein coupled receptor family C group 6 member	GPRC6A	Homo sapiens (Human)	Reviewed(Swiss-Prot)	G-protein coupled receptor, Receptor
Q5TA50	80772	has80772	Glycolipid transfer protein domain-containing protein	GLTPD1	Homo sapiens (Human)	Reviewed(Swiss-Prot)	Ceramide 1-phosphate binding
Q68DD2	255189	has255189	Cytosolic phospholipase A2 zeta	PLA2G4F	Homo sapiens (Human)	Reviewed(Swiss-Prot)	Hydrolase
Q6FHZ7	123	has123	ADFP protein	ADFP	Homo sapiens (Human)	Reviewed(Swiss-Prot)	
Q6IA69	55191	has55191	Glutamine-dependent NAD(+) synthetase	NADSYN1	Homo sapiens (Human)	Reviewed(Swiss-Prot)	Ligase
Q6IB77	10249	has10249	Glycine N-acyltransferase	GLYAT	Homo sapiens (Human)	Reviewed(Swiss-Prot)	Acyltransferase, Transferase
Q6IBR2	2193	has2193	Submitted name: FARSLA protein	FARSLA	Homo sapiens (Human)	Reviewed(Swiss-Prot)	Aminoacyl-tRNA synthetase, Ligase
Q6L9M1			Peroxisome proliferator-activated receptor	PPARG	Homo sapiens (Human)	Reviewed(Swiss-Prot)	
Q6NT32	221223	has221223	Carboxylesterase 5A	CES5A	Homo sapiens (Human)	Reviewed(Swiss-Prot)	Hydrolase, Serine esterase
Q6P1A2	10162	has10162	Lysophospholipid acyltransferase 5	LPCAT3	Homo sapiens (Human)	Reviewed(Swiss-Prot)	Acyltransferase, Transferase
Q6P1J6	151056	has151056	Phospholipase B1, membrane-associated	PLB1	Homo sapiens (Human)	Reviewed(Swiss-Prot)	Acyltransferase, Transferase
Q6P1M0	10999	has10999	Long-chain fatty acid transport protein 4	SLC27A4	Homo sapiens (Human)	Reviewed(Swiss-Prot)	Ligase
Q6PCB7	376497	has376497	Long-chain fatty acid transport protein 1	SLC27A1	Homo sapiens (Human)	Reviewed(Swiss-Prot)	Ligase
Q6UWW	23491	has23491	Carboxylesterase 3	CES3	Homo sapiens (Human)	Reviewed(Swiss-Prot)	Hydrolase, Serine esterase
Q6YP21	56267	has56267	Kynurenine--oxoglutarate transaminase 3	CCBL2	Homo sapiens (Human)	Reviewed(Swiss-Prot)	Aminotransferase, Lyase, Transferase
Q6ZMR	160287	has160287	L-lactate dehydrogenase A-like 6A	LDHAL6A	Homo sapiens (Human)	Reviewed(Swiss-Prot)	Oxidoreductase
Q71UV7			Blood group Kidd urea transporter	HUT11	Homo sapiens (Human)	Reviewed(Swiss-Prot)	Acyltransferase, Transferase
Q7L5N7	54947	has54947	Lysophosphatidylcholine acyltransferase 2	LPCAT2	Homo sapiens (Human)	Reviewed(Swiss-Prot)	Acyltransferase, Transferase
Q7Z2H8	206358	has206358	Proton-coupled amino acid transporter 1	SLC36A1	Homo sapiens (Human)	Reviewed(Swiss-Prot)	Amino acid:proton symporter activity

Q7Z7B1	284098	has284098	Phosphatidylinositol-glycan biosynthesis class W p	PIGW	Homo sapiens (Human)	Reviewed(Swiss-Prot)	Acyltransferase, Transferase
Q86TX2	641371	has641371	Acyl-coenzyme A thioesterase 1	ACOT1	Homo sapiens (Human)	Reviewed(Swiss-Prot)	Hydrolase, Serine esterase
Q86U10	374569	has374569	60 kDa lysophospholipase	ASPG	Homo sapiens (Human)	Reviewed(Swiss-Prot)	Hydrolase
Q86VD9	80235	has80235	GPI mannosyltransferase 4	PIGZ	Homo sapiens (Human)	Reviewed(Swiss-Prot)	Glycosyltransferase, Transferase
Q86WD1			CREB3L2-PPARgamma		Homo sapiens (Human)	Reviewed(Swiss-Prot)	
Q86XP0	283748	has283748	Cytosolic phospholipase A2 delta	PLA2G4D	Homo sapiens (Human)	Reviewed(Swiss-Prot)	Hydrolase
Q86Z02	204851	has204851	Homeodomain-interacting protein kinase 1	HIPK1	Homo sapiens (Human)	Reviewed(Swiss-Prot)	Kinase, Serine/threonine-protein kinase
Q8IUZ5	85007	has85007	5-phosphohydroxy-L-lysine phospho-lyase	AGXT2L2	Homo sapiens (Human)	Reviewed(Swiss-Prot)	Aminotransferase, Lyase, Transferase
Q8IV08	23646	has23646	Phospholipase D3	PLD3	Homo sapiens (Human)	Reviewed(Swiss-Prot)	Hydrolase
Q8IWA5	57153	has57153	Choline transporter-like protein 2	SLC44A2	Homo sapiens (Human)	Reviewed(Swiss-Prot)	Choline transmembrane transporter activity
Q8IY17	10908	has10908	Neuropathy target esterase	PNPLA6	Homo sapiens (Human)	Reviewed(Swiss-Prot)	Hydrolase
Q8N0X4	171425	has171425	Citramalyl-CoA lyase, mitochondrial	CLYBL	Homo sapiens (Human)	Reviewed(Swiss-Prot)	
Q8N2A8	201164	has201164	Mitochondrial cardiolipin hydrolase	PLD6	Homo sapiens (Human)	Reviewed(Swiss-Prot)	Endonuclease, Hydrolase, Nuclease
Q8N4M1	126969	has126969	Choline transporter-like protein 3	SLC44A3	Homo sapiens (Human)	Reviewed(Swiss-Prot)	Choline transmembrane transporter activity
Q8N5D6	26301	has26301	Globoside alpha-1,3-N-acetylgalactosaminyltransferase	GBGT1	Homo sapiens (Human)	Reviewed(Swiss-Prot)	Glycosyltransferase, Transferase
Q8N6M1	55821	has55821	Probable allantoinase	ALLC	Homo sapiens (Human)	Reviewed(Swiss-Prot)	Hydrolase
Q8N9L9	122970	has122970	Acyl-coenzyme A thioesterase 4	ACOT4	Homo sapiens (Human)	Reviewed(Swiss-Prot)	Hydrolase, Serine esterase
Q8NCC3	23659	has23659	Group XV phospholipase A2	PLA2G15	Homo sapiens (Human)	Reviewed(Swiss-Prot)	Acyltransferase, Hydrolase, Transferase
Q8NE62	55349	has55349	Choline dehydrogenase, mitochondrial	CHDH	Homo sapiens (Human)	Reviewed(Swiss-Prot)	Oxidoreductase
Q8NF37	79888	has79888	Lysophosphatidylcholine acyltransferase 1	LPCAT1	Homo sapiens (Human)	Reviewed(Swiss-Prot)	Acyltransferase, Transferase
Q8TBF5	54965	has54965	Phosphatidylinositol-glycan biosynthesis class X pr	PIGX	Homo sapiens (Human)	Reviewed(Swiss-Prot)	
Q8TCT1	162466	has162466	Phosphoethanolamine/phosphocholine phosphatase	PHOSPHO1	Homo sapiens (Human)	Reviewed(Swiss-Prot)	Hydrolase
Q8TD30	84706	has84706	Alanine aminotransferase 2	GPT2	Homo sapiens (Human)	Reviewed(Swiss-Prot)	Aminotransferase, Transferase
Q8TDN7	125981	has125981	Alkaline ceramidase 1	ACER1	Homo sapiens (Human)	Reviewed(Swiss-Prot)	Hydrolase
Q8TEQ8	84720	has84720	GPI ethanolamine phosphate transferase 3	PIGO	Homo sapiens (Human)	Reviewed(Swiss-Prot)	Transferase
Q8TET4	2595	has2595	Neutral alpha-glucosidase C	GANC	Homo sapiens (Human)	Reviewed(Swiss-Prot)	Glycosidase, Hydrolase
Q8TF71	117247	has117247	Monocarboxylate transporter 10	SLC16A10	Homo sapiens (Human)	Reviewed(Swiss-Prot)	Amino acid transmembrane transport
Q8WU0:	219970	has219970	Glycine N-acyltransferase-like protein 2	GLYATL2	Homo sapiens (Human)	Reviewed(Swiss-Prot)	Acyltransferase, Transferase
Q8WWI:	23446	has23446	Choline transporter-like protein 1	SLC44A1	Homo sapiens (Human)	Reviewed(Swiss-Prot)	Choline transmembrane transporter activity
Q8WXW8			Urea transporter JK glycoprotein	JK	Homo sapiens (Human)	Reviewed(Swiss-Prot)	Urea transmembrane transporter activity
Q92521	9488	has9488	GPI mannosyltransferase 3	PIGB	Homo sapiens (Human)	Reviewed(Swiss-Prot)	Glycosyltransferase, Transferase
Q92535	5279	has5279	Phosphatidylinositol N-acetylglucosaminyltransferase	PIGC	Homo sapiens (Human)	Reviewed(Swiss-Prot)	Glycosyltransferase, Transferase
Q92643	10026	has10026	GPI-anchor transamidase	PIGK	Homo sapiens (Human)	Reviewed(Swiss-Prot)	Hydrolase, Protease, Thiol protease
Q93088	635	has635	Betaine--homocysteine S-methyltransferase 1	BHMT	Homo sapiens (Human)	Reviewed(Swiss-Prot)	Methyltransferase, Transferase
Q969I3	92292	has92292	Glycine N-acyltransferase-like protein 1	GLYATL1	Homo sapiens (Human)	Reviewed(Swiss-Prot)	Acyltransferase, Transferase
Q969N2	51604	has51604	GPI transamidase component PIG-T	PIGT	Homo sapiens (Human)	Reviewed(Swiss-Prot)	GPI-anchor transamidase activity
Q96AD5	57104	has57104	Patatin-like phospholipase domain-containing protein	PNPLA2	Homo sapiens (Human)	Reviewed(Swiss-Prot)	Hydrolase
Q96BZ4	122618	has122618	Phospholipase D4	PLD4	Homo sapiens (Human)	Reviewed(Swiss-Prot)	Hydrolase
Q96DG6	134147	has134147	Carboxymethylenebutenolidase homolog	CMBL	Homo sapiens (Human)	Reviewed(Swiss-Prot)	Hydrolase
Q96EN8	55034	has55034	Molybdenum cofactor sulfurase	MOCOS	Homo sapiens (Human)	Reviewed(Swiss-Prot)	Molybdenum cofactor sulfurtransferase
Q96HD9	91703	has91703	Aspartoacylase-2	ACY3	Homo sapiens (Human)	Reviewed(Swiss-Prot)	Hydrolase
Q96I15	51540	has51540	Selenocysteine lyase	SCLY	Homo sapiens (Human)	Reviewed(Swiss-Prot)	Lyase, Transferase
Q96JA3	84725	has84725	Pleckstrin homology domain-containing family A n	PLEKHA8	Homo sapiens (Human)	Reviewed(Swiss-Prot)	Ceramide binding
Q96KN2	84735	has84735	Beta-Ala-His dipeptidase	CNDP1	Homo sapiens (Human)	Reviewed(Swiss-Prot)	Carboxypeptidase activity
Q96LB8	57115	has57115	Peptidoglycan recognition protein 4	PGLYRP4	Homo sapiens (Human)	Reviewed(Swiss-Prot)	Antibiotic, Antimicrobial
Q96LB9	114771	has114771	Peptidoglycan recognition protein 3	PGLYRP3	Homo sapiens (Human)	Reviewed(Swiss-Prot)	Antibiotic, Antimicrobial
Q96PD5	114770	has114770	N-acetylmuramoyl-L-alanine amidase	PGLYRP2	Homo sapiens (Human)	Reviewed(Swiss-Prot)	N-acetylmuramoyl-L-alanine amidase
Q96PF1	116179	has116179	Protein-glutamine gamma-glutamyltransferase Z	TGM7	Homo sapiens (Human)	Reviewed(Swiss-Prot)	Acyltransferase, Transferase

Q96RQ9	259307	has259307	L-amino-acid oxidase	IL4I1	Homo sapiens (Human)	Reviewed(Swiss-Prot)	Oxidoreductase
Q96RQ9	259307	has259307	L-amino-acid oxidase	IL4I1	Homo sapiens (Human)	Reviewed(Swiss-Prot)	Oxidoreductase
Q96S52	94005	has94005	GPI transamidase component PIG-S	PIGS	Homo sapiens (Human)	Reviewed(Swiss-Prot)	GPI-anchor transamidase activity
Q99487	5051	has5051	Platelet-activating factor acetylhydrolase 2, cytopla	PAFAH2	Homo sapiens (Human)	Reviewed(Swiss-Prot)	Hydrolase
Q99518	2327	has2327	Dimethylaniline monooxygenase [N-oxide-forming	FMO2	Homo sapiens (Human)	Reviewed(Swiss-Prot)	Monooxygenase, Oxidoreductase
Q99624	10991	has10991	Sodium-coupled neutral amino acid transporter 3	SLC38A3	Homo sapiens (Human)	Reviewed(Swiss-Prot)	Amino acid transmembrane transport
Q99624	10991	has10991	Sodium-coupled neutral amino acid transporter 3	SLC38A3	Homo sapiens (Human)	Reviewed(Swiss-Prot)	Amino acid transmembrane transport
Q99798	50	has50	Aconitate hydratase, mitochondrial	ACO2	Homo sapiens (Human)	Reviewed(Swiss-Prot)	
Q9BRB3	9091	has9091	Phosphatidylinositol N-acetylglucosaminyltransferase	PIGQ	Homo sapiens (Human)	Reviewed(Swiss-Prot)	Glycosyltransferase, Transferase
Q9BRR6	83440	has83440	ADP-dependent glucokinase	ADPGK	Homo sapiens (Human)	Reviewed(Swiss-Prot)	Kinase, Transferase
Q9BSE5	79814	has79814	Agmatinase, mitochondrial	AGMAT	Homo sapiens (Human)	Reviewed(Swiss-Prot)	Hydrolase
Q9BUM	92579	has92579	Glucose-6-phosphatase 3	G6PC3	Homo sapiens (Human)	Reviewed(Swiss-Prot)	Hydrolase
Q9BX93	84647	has84647	Group XIIB secretory phospholipase A2-like protei	PLA2G12B	Homo sapiens (Human)	Reviewed(Swiss-Prot)	Calcium ion binding
Q9BY32	3704	has3704	Inosine triphosphate pyrophosphatase	ITPA	Homo sapiens (Human)	Reviewed(Swiss-Prot)	Hydrolase
Q9BYF1	59272	has59272	Angiotensin-converting enzyme 2	ACE2	Homo sapiens (Human)	Reviewed(Swiss-Prot)	Carboxypeptidase, Host cell receptor
Q9BYG0	84002	has84002	Lactosylceramide 1,3-N-acetyl-beta-D-glucosaminy	B3GNT5	Homo sapiens (Human)	Reviewed(Swiss-Prot)	Developmental protein, Glycosyltran
Q9BYV1	64902	has64902	Alanine--glyoxylate aminotransferase 2, mitochond	AGXT2	Homo sapiens (Human)	Reviewed(Swiss-Prot)	Aminotransferase, Transferase
Q9BYV1	64902	has64902	Alanine--glyoxylate aminotransferase 2, mitochond	AGXT2	Homo sapiens (Human)	Reviewed(Swiss-Prot)	Aminotransferase, Transferase
Q9BYZ2	92483	has92483	L-lactate dehydrogenase A-like 6B	LDHAL6B	Homo sapiens (Human)	Reviewed(Swiss-Prot)	Oxidoreductase
Q9BZM	81579	has81579	Group XIIA secretory phospholipase A2	PLA2G12A	Homo sapiens (Human)	Reviewed(Swiss-Prot)	Hydrolase
Q9BZM	64600	has64600	Group IIF secretory phospholipase A2	PLA2G2F	Homo sapiens (Human)	Reviewed(Swiss-Prot)	Hydrolase
Q9BZX2	7371	has7371	Uridine-cytidine kinase 2	UCK2	Homo sapiens (Human)	Reviewed(Swiss-Prot)	Kinase, Transferase
Q9GZU7	58190	has58190	Carboxy-terminal domain RNA polymerase II poly	CTDSP1	Homo sapiens (Human)	Reviewed(Swiss-Prot)	Hydrolase, Protein phosphatase
Q9GZV3	60482	has60482	High affinity choline transporter 1	SLC5A7	Homo sapiens (Human)	Reviewed(Swiss-Prot)	Choline transmembrane transporter a
Q9H0R6	55278	has55278	Glutamyl-tRNA(Gln) amidotransferase subunit A, r	QRSL1	Homo sapiens (Human)	Reviewed(Swiss-Prot)	Ligase
Q9H227	57733	has57733	Cytosolic beta-glucosidase	GBA3	Homo sapiens (Human)	Reviewed(Swiss-Prot)	Glycosidase, Hydrolase
Q9H3S5	93183	has93183	GPI mannosyltransferase 1	PIGM	Homo sapiens (Human)	Reviewed(Swiss-Prot)	Glycosyltransferase, Transferase
Q9H490	128869	has128869	Phosphatidylinositol glycan anchor biosynthesis cla	PIGU	Homo sapiens (Human)	Reviewed(Swiss-Prot)	
Q9H598	140679	has140679	Vesicular inhibitory amino acid transporter	SLC32A1	Homo sapiens (Human)	Reviewed(Swiss-Prot)	Amino acid transmembrane transport
Q9HCG7	57704	has57704	Non-lysosomal glucosylceramidase	GBA2	Homo sapiens (Human)	Reviewed(Swiss-Prot)	Glycosidase, Hydrolase
Q9NP80	50640	has50640	Calcium-independent phospholipase A2-gamma	PNPLA8	Homo sapiens (Human)	Reviewed(Swiss-Prot)	Hydrolase
Q9NPB8	56261	has56261	Glycerophosphocholine phosphodiesterase GPCPD	GPCPD1	Homo sapiens (Human)	Reviewed(Swiss-Prot)	Hydrolase
Q9NQR5	57818	has57818	Glucose-6-phosphatase 2	G6PC2	Homo sapiens (Human)	Reviewed(Swiss-Prot)	Hydrolase
Q9NR71	56624	has56624	Neutral ceramidase	ASAH2	Homo sapiens (Human)	Reviewed(Swiss-Prot)	Hydrolase
Q9NRF8	56474	has56474	CTP synthase 2	CTPS2	Homo sapiens (Human)	Reviewed(Swiss-Prot)	Ligase
Q9NSD9	10056	has10056	Phenylalanine--tRNA ligase beta subunit	FARSB	Homo sapiens (Human)	Reviewed(Swiss-Prot)	Aminoacyl-tRNA synthetase, Ligase
Q9NST1	80339	has80339	Patatin-like phospholipase domain-containing prote	PNPLA3	Homo sapiens (Human)	Reviewed(Swiss-Prot)	Acyltransferase, Hydrolase, Transfer
Q9NUD9	55650	has55650	GPI mannosyltransferase 2	PIGV	Homo sapiens (Human)	Reviewed(Swiss-Prot)	Glycosyltransferase, Transferase
Q9NV23	55301	has55301	S-acyl fatty acid synthase thioesterase, medium cha	OLAH	Homo sapiens (Human)	Reviewed(Swiss-Prot)	Hydrolase
Q9NZ20	50487	has50487	Group 3 secretory phospholipase A2	PLA2G3	Homo sapiens (Human)	Reviewed(Swiss-Prot)	Hydrolase
Q9NZC3	51573	has51573	Glycerophosphodiester phosphodiesterase 1	GDE1	Homo sapiens (Human)	Reviewed(Swiss-Prot)	Hydrolase
Q9NZD2	51228	has51228	Glycolipid transfer protein	GLTP	Homo sapiens (Human)	Reviewed(Swiss-Prot)	Glycolipid binding
Q9NZK7	30814	has30814	Group IIE secretory phospholipase A2	PLA2G2E	Homo sapiens (Human)	Reviewed(Swiss-Prot)	Hydrolase
Q9P0Z9	51268	has51268	Peroxisomal sarcosine oxidase	PIPOX	Homo sapiens (Human)	Reviewed(Swiss-Prot)	Oxidoreductase
Q9UEF6			Peroxisome proliferator activated-receptor gamma	ppar gamma	Homo sapiens (Human)	Unreviewed(TrEMBL)	Receptor
Q9UFH6			Putative uncharacterized protein DKFZp434L0435	DKFZp4341	Homo sapiens (Human)	Unreviewed(TrEMBL)	Receptor
Q9UHI5	23428	has23428	Large neutral amino acids transporter small subunit	SLC7A8	Homo sapiens (Human)	Reviewed(Swiss-Prot)	Amino acid transmembrane transport
Q9UHV1	29124	has29124	Galactoside-binding soluble lectin 13	LGALS13	Homo sapiens (Human)	Reviewed(Swiss-Prot)	Carbohydrate binding

Q9UI32	27165 has27165	Glutaminase liver isoform, mitochondrial	GLS2	Homo sapiens (Human)	Reviewed(Swiss-Prot)	Hydrolase
Q9UL12	1757 has1757	Sarcosine dehydrogenase, mitochondrial	SARDH	Homo sapiens (Human)	Reviewed(Swiss-Prot)	Oxidoreductase
Q9ULI2	57494 has57494	Beta-citrylglutamate synthase B	RIMKLB	Homo sapiens (Human)	Reviewed(Swiss-Prot)	Ligase
Q9UNK4	26279 has26279	Group IID secretory phospholipase A2	PLA2G2D	Homo sapiens (Human)	Reviewed(Swiss-Prot)	Hydrolase
Q9UP65	8605 has8605	Cytosolic phospholipase A2 gamma	PLA2G4C	Homo sapiens (Human)	Reviewed(Swiss-Prot)	Hydrolase
Q9Y259	1120 has1120	Choline/ethanolamine kinase	CHKB	Homo sapiens (Human)	Reviewed(Swiss-Prot)	Kinase, Transferase
Q9Y285	2193 has2193	Phenylalanine--tRNA ligase alpha subunit	FARSA	Homo sapiens (Human)	Reviewed(Swiss-Prot)	Aminoacyl-tRNA synthetase, Ligase
Q9Y2B2	9487 has9487	N-acetylglucosaminyl-phosphatidylinositol de-N-ac	PIGL	Homo sapiens (Human)	Reviewed(Swiss-Prot)	Hydrolase
Q9Y2C3	10317 has10317	Beta-1,3-galactosyltransferase 5	B3GALT5	Homo sapiens (Human)	Reviewed(Swiss-Prot)	Glycosyltransferase, Transferase
Q9Y2P4	28965 has28965	Long-chain fatty acid transport protein 6	SLC27A6	Homo sapiens (Human)	Reviewed(Swiss-Prot)	Ligase
Q9Y345	9152 has9152	Sodium- and chloride-dependent glycine transporter	SLC6A5	Homo sapiens (Human)	Reviewed(Swiss-Prot)	Glycine:sodium symporter activity
Q9Y5K3	9468 has9468	Choline-phosphate cytidyltransferase B	PCYT1B	Homo sapiens (Human)	Reviewed(Swiss-Prot)	Nucleotidyltransferase, Transferase
Q9Y5X9	9388 has9388	Endothelial lipase	LIPG	Homo sapiens (Human)	Reviewed(Swiss-Prot)	Heparin-binding, Hydrolase
Q9Y663	9955 has9955	Heparan sulfate glucosamine 3-O-sulfotransferase 3	HS3ST3A1	Homo sapiens (Human)	Reviewed(Swiss-Prot)	Transferase
Q9Y697	9054 has9054	Cysteine desulfurase, mitochondrial	NFS1	Homo sapiens (Human)	Reviewed(Swiss-Prot)	Transferase
Q9Y6K0	10390 has10390	Choline/ethanolaminephosphotransferase 1	CEPT1	Homo sapiens (Human)	Reviewed(Swiss-Prot)	Transferase

Supplementary Table S5. The docking score between metabonomic biomarker and target calculate by systemsDock

Uniprot ID	PDB	Biomaker	Docking Scores (pKd/pKi)
P04150	1P93	HMDB0004610	7.628
P01116	1N4R	HMDB0004610	7.618
P21359	2D4Q	HMDB0004610	7.563
P68871	1BAB	HMDB0004610	7.446
P36551	2AEX	HMDB0004610	7.41
P14902	2D0T	HMDB0004610	7.401
P21397	2Z5Y	HMDB0010393	7.401
P27338	1OJA	HMDB0010396	7.38
P21397	2Z5Y	HMDB0010396	7.38
P27338	1OJA	HMDB0010393	7.376
P28329	2FY3	HMDB0004610	7.375
P21397	2Z5Y	HMDB0004610	7.356
P01308	1EVR	HMDB0004610	7.353
P51659	1IKT	HMDB0004610	7.353
P02768	1E7A	HMDB0004610	7.329
P42345	4FAP	HMDB0004610	7.324
P04271	2H61	HMDB0004610	7.32
P04278	1LHV	HMDB0004610	7.302
P21802	1DJS	HMDB0004610	7.292
P21397	2Z5Y	HMDB0010384	7.283
P02741	1CGP	HMDB0004610	7.274
Q08499	1MKD	HMDB0004610	7.274
P01270	3C4M	HMDB0004610	7.27
P27338	1OJA	HMDB0004610	7.242
Q30201	1DEA	HMDB0004610	7.232
Q15067	1W07	HMDB0004610	7.209
P12821	1UZE	HMDB0004610	7.199
Q9Y617	3E77	HMDB0010393	7.183
P00441	1HL5	HMDB0004610	7.17
Q9Y617	3E77	HMDB0004610	7.154
Q99259	2OKJ	HMDB0010396	7.147
P01375	2AZ5	HMDB0004610	7.128
P07949	2IVS	HMDB0004610	7.124
P28482	1PME	HMDB0004610	7.115
Q9Y617	3E77	HMDB0010396	7.111
Q99259	2OKJ	HMDB0010393	7.088
P21964	3HVH	HMDB0004610	7.082
Q9BYW2	3H6L	HMDB0004610	7.06
P30793	1N3T	HMDB0004610	7.053
P14416	2HLB	HMDB0004610	7.049
P42336	3HHM	HMDB0004610	7.032
Q08499	1MKD	HMDB0010393	7.023
P16278	1BOB	HMDB0004610	7.017
P21397	2Z5Y	HMDB0010383	6.996
P01138	1SG1	HMDB0004610	6.988
Q08499	1MKD	HMDB0010396	6.987
P12821	1UZE	HMDB0010396	6.979
P17612	3MVJ	HMDB0010393	6.955
Q9Y617	3E77	HMDB0010384	6.947
P08397	3ECR	HMDB0004610	6.944
P36551	2AEX	HMDB0010393	6.941
P17612	3MVJ	HMDB0010396	6.936
P36551	2AEX	HMDB0010396	6.927
P28329	2FY3	HMDB0010384	6.922
P12821	1UZE	HMDB0010393	6.913
Q15067	1W07	HMDB0010393	6.913
P27338	1OJA	HMDB0010383	6.907
P01116	1N4R	HMDB0010393	6.903
P36551	2AEX	HMDB0010384	6.903
P28329	2FY3	HMDB0010393	6.901
P28329	2FY3	HMDB0010396	6.886
P00441	1HL5	HMDB0010393	6.877
P02768	1E7A	HMDB0010396	6.876
P01116	1N4R	HMDB0010396	6.876
P00441	1HL5	HMDB0010384	6.873
P04278	1LHV	HMDB0010396	6.873

Q9BYW2	3H6L	HMDB0010396	6.862
Q99259	2OKJ	HMDB0010384	6.861
P01579	1EKU	HMDB0010396	6.85
P02768	1E7A	HMDB0010393	6.845
P01138	1SG1	HMDB0010393	6.838
P43354	1OVL	HMDB0004610	6.836
Q8NFD5	2EH9	HMDB0004610	6.826
P02741	1CGP	HMDB0010393	6.824
P04278	1LHV	HMDB0010393	6.822
Q15067	1W07	HMDB0010396	6.818
Q06124	2SHP	HMDB0010393	6.818
Q06124	2SHP	HMDB0010396	6.814
P01579	1EKU	HMDB0010393	6.797
P02741	1CGP	HMDB0010396	6.789
P01138	1SG1	HMDB0010396	6.775
P02741	1CGP	HMDB0000099	6.767
P00441	1HL5	HMDB0010396	6.765
P17612	3MVJ	HMDB0010384	6.761
P28329	2FY3	HMDB0010383	6.756
P42336	3HHM	HMDB0010396	6.751
Q9BYW2	3H6L	HMDB0010393	6.749
P01116	1N4R	HMDB0010384	6.747
P08397	3ECR	HMDB0010396	6.73
P36551	2AEX	HMDB0010383	6.725
P12821	1UZE	HMDB0010384	6.712
P04150	1P93	HMDB0034146	6.703
P02768	1E7A	HMDB0010384	6.702
P21397	2Z5Y	HMDB0000883	6.702
P02741	1CGP	HMDB0010384	6.698
P21397	2Z5Y	HMDB0000099	6.683
P14416	2HLB	HMDB0010396	6.682
Q08499	1MKD	HMDB0010384	6.681
P23771	3DFV	HMDB0004610	6.68
P01270	3C4M	HMDB0010396	6.679
P01116	1N4R	HMDB0034146	6.677
P00441	1HL5	HMDB0010383	6.668
P27338	1OJA	HMDB0000099	6.668
P05067	2FK3	HMDB0004610	6.666
P14416	2HLB	HMDB0010393	6.666
P42336	3HHM	HMDB0010393	6.662
Q06124	2SHP	HMDB0010384	6.661
P08397	3ECR	HMDB0010393	6.656
P01308	1EVR	HMDB0010393	6.648
P62834	3KUC	HMDB0010393	6.643
P01308	1EVR	HMDB0010396	6.642
P21802	1DJS	HMDB0010393	6.641
P21802	1DJS	HMDB0010396	6.64
P04271	2H61	HMDB0010396	6.638
P07949	2IVS	HMDB0010383	6.634
Q30201	1DEA	HMDB0010393	6.629
P04150	1P93	HMDB0010384	6.628
Q03431	3L2J	HMDB0010393	6.627
P21359	2D4Q	HMDB0010384	6.626
P62834	3KUC	HMDB0010396	6.621
P01138	1SG1	HMDB0010384	6.619
P04278	1LHV	HMDB0000099	6.618
P04150	1P93	HMDB0010393	6.618
Q99259	2OKJ	HMDB0010383	6.616
P10082	2ZA5	HMDB0004610	6.613
P12821	1UZE	HMDB0000099	6.608
P14416	2HLB	HMDB0010384	6.608
P21359	2D4Q	HMDB0010393	6.605
P21359	2D4Q	HMDB0010383	6.603
P21359	2D4Q	HMDB0010396	6.595
P43354	1OVL	HMDB0010384	6.593
P04271	2H61	HMDB0010393	6.586
P01116	1N4R	HMDB0010383	6.58
P04150	1P93	HMDB0010396	6.579
P27361	3FXW	HMDB0010396	6.575

P10082	2ZA5	HMDB0010393	6.574
P54098	1A1V	HMDB0010396	6.57
Q08499	1MKD	HMDB0010383	6.567
P12821	1UZE	HMDB0010383	6.566
P54098	1A1V	HMDB0010393	6.565
P29475	1F20	HMDB0004610	6.563
P02768	1E7A	HMDB0010383	6.556
Q9Y617	3E77	HMDB0010383	6.551
P42345	4FAP	HMDB0010396	6.546
Q15067	1W07	HMDB0010384	6.542
P01308	1EVR	HMDB0034146	6.541
Q9BYW2	3H6L	HMDB0010384	6.54
Q03431	3L2J	HMDB0010396	6.538
P30793	1N3T	HMDB0010396	6.536
P01308	1EVR	HMDB0010384	6.528
Q30201	1DEA	HMDB0000099	6.521
P43354	1OVL	HMDB0010393	6.517
Q8NFD5	2EH9	HMDB0010393	6.516
P01112	1NVU	HMDB0004610	6.515
P14902	2D0T	HMDB0010393	6.512
P07949	2IVS	HMDB0010396	6.508
P04278	1LHV	HMDB0010384	6.503
P01270	3C4M	HMDB0010393	6.503
P62834	3KUC	HMDB0010384	6.503
P08069	3F5P	HMDB0010384	6.494
P42345	4FAP	HMDB0010384	6.494
P05067	2FK3	HMDB0010393	6.488
P15056	3II5	HMDB0010384	6.483
P15056	3II5	HMDB0010396	6.482
P08069	3F5P	HMDB0010393	6.481
P01270	3C4M	HMDB0010384	6.48
P02741	1CGP	HMDB0010383	6.475
P30793	1N3T	HMDB0010393	6.469
Q03431	3L2J	HMDB0010384	6.468
P23771	3DFV	HMDB0034146	6.46
P16435	3FJO	HMDB0004610	6.46
P21397	2Z5Y	HMDB0034146	6.457
P03372	1HCQ	HMDB0004610	6.456
P01579	1EKU	HMDB0010383	6.455
P07949	2IVS	HMDB0010393	6.454
P03372	1HCQ	HMDB0034146	6.453
Q9Y617	3E77	HMDB0000099	6.447
P62834	3KUC	HMDB0004610	6.444
P04049	3CU8	HMDB0010396	6.441
P01308	1EVR	HMDB0010383	6.44
P27338	1OJA	HMDB0034146	6.436
Q02750	3EQC	HMDB0010396	6.436
Q99259	2OKJ	HMDB0034146	6.435
P51659	1IKT	HMDB0010393	6.434
P04278	1LHV	HMDB0034146	6.434
P04049	3CU8	HMDB0010393	6.432
P23771	3DFV	HMDB0010393	6.427
P23771	3DFV	HMDB0010396	6.427
P05067	2FK3	HMDB0010396	6.424
P15056	3II5	HMDB0010393	6.423
P42345	4FAP	HMDB0010393	6.422
P27361	3FXW	HMDB0010383	6.418
Q08499	1MKD	HMDB0000099	6.417
P01270	3C4M	HMDB0034146	6.417
P08069	3F5P	HMDB0034146	6.415
P17612	3MVJ	HMDB0034146	6.413
Q30201	1DEA	HMDB0010384	6.411
P43354	1OVL	HMDB0010396	6.411
P28482	1PME	HMDB0010396	6.411
Q15067	1W07	HMDB0034146	6.411
P54098	1A1V	HMDB0010384	6.409
P04049	3CU8	HMDB0010384	6.403
P27361	3FXW	HMDB0034146	6.403
Q02750	3EQC	HMDB0010384	6.402

P04150	1P93	HMDB0010383	6.399
P27361	3FXW	HMDB0010393	6.396
P36551	2AEX	HMDB0034146	6.394
P00441	1HL5	HMDB0034146	6.393
P08397	3ECR	HMDB0010384	6.393
P07949	2IVS	HMDB0010384	6.39
P21802	1DJS	HMDB0034146	6.385
P01112	1NVU	HMDB0010396	6.383
P05067	2FK3	HMDB0010384	6.377
P03372	1HCQ	HMDB0010396	6.375
Q15067	1W07	HMDB0010383	6.371
P02768	1E7A	HMDB0034146	6.369
P78509	2DDU	HMDB0010396	6.369
P08397	3ECR	HMDB0010383	6.366
P02787	1DAN	HMDB0004610	6.365
Q03431	3L2J	HMDB0034146	6.365
P30793	1N3T	HMDB0010384	6.364
Q8NFD5	2EH9	HMDB0010396	6.364
P14416	2HLB	HMDB0010383	6.364
P01112	1NVU	HMDB0010384	6.363
P08069	3F5P	HMDB0010396	6.362
P28329	2FY3	HMDB0034146	6.357
P01112	1NVU	HMDB0010393	6.355
P01270	3C4M	HMDB0010383	6.354
P02741	1CGP	HMDB0034146	6.352
P28482	1PME	HMDB0034146	6.344
P17612	3MVJ	HMDB0010383	6.344
Q30201	1DEA	HMDB0034146	6.342
Q02750	3EQC	HMDB0010383	6.339
P68871	1BAB	HMDB0010393	6.338
P27361	3FXW	HMDB0010384	6.338
P02787	1DAN	HMDB0010396	6.337
Q03431	3L2J	HMDB0010383	6.337
P01112	1NVU	HMDB0010383	6.335
P21964	3HVH	HMDB0010396	6.333
Q06124	2SHP	HMDB0034146	6.332
P03372	1HCQ	HMDB0010384	6.329
P10082	2ZA5	HMDB0010396	6.329
Q9BYW2	3H6L	HMDB0034146	6.329
P51659	1IKT	HMDB0010396	6.325
Q02750	3EQC	HMDB0010393	6.325
P28482	1PME	HMDB0010393	6.324
Q08499	1MKD	HMDB0034146	6.318
P14416	2HLB	HMDB0034146	6.316
P02787	1DAN	HMDB0010393	6.315
P30793	1N3T	HMDB0034146	6.312
P14902	2D0T	HMDB0010396	6.312
Q02750	3EQC	HMDB0034146	6.312
P35520	1M54	HMDB0010393	6.307
P10082	2ZA5	HMDB0010384	6.302
P21802	1DJS	HMDB0010384	6.298
P42336	3HHM	HMDB0034146	6.296
Q9Y617	3E77	HMDB0034146	6.293
P51659	1IKT	HMDB0034146	6.291
P54098	1A1V	HMDB0010383	6.288
P08397	3ECR	HMDB0034146	6.287
P68871	1BAB	HMDB0034146	6.286
P15056	3II5	HMDB0034146	6.285
P14902	2D0T	HMDB0034146	6.283
P23771	3DFV	HMDB0010384	6.276
P60484	1D5R	HMDB0004610	6.273
P21802	1DJS	HMDB0010383	6.27
P35637	1G5G	HMDB0010393	6.269
P04278	1LHV	HMDB0010383	6.268
P68871	1BAB	HMDB0010396	6.265
P21964	3HVH	HMDB0034146	6.262
P14902	2D0T	HMDB0010384	6.258
P54098	1A1V	HMDB0004610	6.257
Q9Y243	2X18	HMDB0004610	6.248

P35637	1G5G	HMDB0010396	6.247
P03372	1HCQ	HMDB0010393	6.247
Q30201	1DEA	HMDB0010396	6.246
P01138	1SG1	HMDB0034146	6.246
Q06124	2SHP	HMDB0000099	6.242
P12821	1UZE	HMDB0034146	6.229
P11274	1K1F	HMDB0004610	6.223
Q06124	2SHP	HMDB0004610	6.223
P21964	3HVH	HMDB0010384	6.223
P35520	1M54	HMDB0010396	6.218
P21964	3HVH	HMDB0010393	6.217
P35520	1M54	HMDB0034146	6.214
P35520	1M54	HMDB0010384	6.202
P01589	3IU3	HMDB0010393	6.202
Q13255	1EWT	HMDB0010396	6.197
P01920	1UVQ	HMDB0010396	6.19
P27487	1W1I	HMDB0010393	6.189
P04271	2H61	HMDB0010384	6.186
P01920	1UVQ	HMDB0010384	6.185
P01920	1UVQ	HMDB0010383	6.183
P15289	2AIJ	HMDB0010396	6.182
P28482	1PME	HMDB0010384	6.181
P01920	1UVQ	HMDB0010393	6.181
P01241	1AXI	HMDB0010393	6.18
P10912	1AXI	HMDB0010393	6.18
P15056	3II5	HMDB0010383	6.18
P15289	2AIJ	HMDB0010384	6.179
P15289	2AIJ	HMDB0010393	6.179
P22301	2ILK	HMDB0010396	6.179
P11362	1CVS	HMDB0000294	6.175
Q13936	1T0J	HMDB0010384	6.174
Q13936	1T0J	HMDB0010393	6.173
P01589	3IU3	HMDB0010396	6.169
P51608	3C2I	HMDB0010393	6.168
Q30201	1DEA	HMDB0010383	6.167
P51659	1IKT	HMDB0010384	6.166
P07949	2IVS	HMDB0000099	6.166
Q13936	1T0J	HMDB0010396	6.165
P01138	1SG1	HMDB0010383	6.163
P08069	3F5P	HMDB0010383	6.151
Q13255	1EWT	HMDB0010384	6.146
Q13936	1T0J	HMDB0010383	6.146
P42336	3HHM	HMDB0010384	6.144
P15289	2AIJ	HMDB0010383	6.143
Q16620	1HCF	HMDB0000294	6.137
P04049	3CU8	HMDB0010383	6.137
P35520	1M54	HMDB0004610	6.131
P21359	2D4Q	HMDB0034146	6.131
P04271	2H61	HMDB0034146	6.129
Q99700	3KTR	HMDB0010396	6.128
P54098	1A1V	HMDB0034146	6.127
Q8NFD5	2EH9	HMDB0010384	6.127
P22301	2ILK	HMDB0010383	6.126
P22301	2ILK	HMDB0010393	6.126
P22301	2ILK	HMDB0010384	6.121
P07949	2IVS	HMDB0034146	6.111
P05019	1H02	HMDB0010396	6.109
P68871	1BAB	HMDB0010384	6.102
P05231	1ALU	HMDB0000294	6.1
P35520	1M54	HMDB0000294	6.095
P23771	3DFV	HMDB0010383	6.092
P30793	1N3T	HMDB0010383	6.088
P21333	2WFN	HMDB0000294	6.085
P29475	1F20	HMDB0000294	6.08
P01584	2NVH	HMDB0000294	6.077
Q9BYW2	3H6L	HMDB0010383	6.077
P28482	1PME	HMDB0010383	6.075
P14902	2D0T	HMDB0010383	6.072
P04637	1GZH	HMDB0010396	6.062

P39905	2V5E	HMDB0000294	6.057
P01589	3IU3	HMDB0010383	6.052
P10145	1QE6	HMDB0010396	6.051
P43354	1OVL	HMDB0010383	6.048
P36551	2AEX	HMDB0000161	6.047
Q15465	3M1N	HMDB0010384	6.037
P35520	1M54	HMDB0010383	6.034
Q06787	2QND	HMDB0010393	6.033
Q15465	3M1N	HMDB0010396	6.033
P51659	1IKT	HMDB0010383	6.03
P05067	2FK3	HMDB0034146	6.029
P16278	1BOB	HMDB0000294	6.019
P01308	1EVR	HMDB0000099	6.016
P16435	3FJO	HMDB0010396	6.01
P01589	3IU3	HMDB0010384	6.01
Q9Y243	2X18	HMDB0010396	6.008
Q99497	1PDW	HMDB0000294	6.006
P03372	1HCQ	HMDB0010383	6.003
P04637	1GZH	HMDB0000294	5.999
Q9Y243	2X18	HMDB0000294	5.996
Q9Y243	2X18	HMDB0010393	5.992
Q8NER1	2NYJ	HMDB0000294	5.99
P41159	3IIQ	HMDB0000294	5.99
P01579	1EKU	HMDB0000294	5.986
Q9NQC3	1OZN	HMDB0010393	5.986
P01911	2WBJ	HMDB0000294	5.986
Q15465	3M1N	HMDB0000294	5.986
P16278	1BOB	HMDB0010393	5.982
P27487	1W1I	HMDB0000294	5.979
Q9Y243	2X18	HMDB0010383	5.978
Q9UBP0	3B9P	HMDB0010396	5.977
P04049	3CU8	HMDB0034146	5.977
P51608	3C2I	HMDB0010384	5.974
Q06787	2QND	HMDB0010396	5.969
P10145	1QE6	HMDB0010393	5.968
P14902	2D0T	HMDB0000294	5.961
P02741	1CGP	HMDB0000161	5.96
P10082	2ZA5	HMDB0034146	5.96
P15056	3II5	HMDB0000294	5.959
P04062	2NT0	HMDB0000294	5.956
Q99259	2OKJ	HMDB0000161	5.953
P78509	2DDU	HMDB0010384	5.951
P68871	1BAB	HMDB0000294	5.948
Q13255	1EWT	HMDB0010383	5.943
P60484	1D5R	HMDB0010393	5.939
P02741	1CGP	HMDB0000294	5.938
P60484	1D5R	HMDB0010396	5.933
O00555	3BXX	HMDB0000294	5.933
P42336	3HHM	HMDB0010383	5.933
Q43612	1UV0	HMDB0000294	5.932
Q06124	2SHP	HMDB0000161	5.931
P06280	3HG3	HMDB0010393	5.931
P16435	3FJO	HMDB0010393	5.93
P01303	1R9N	HMDB0000294	5.929
P31749	2UZS	HMDB0000294	5.928
Q03431	3L2J	HMDB0000294	5.923
Q9Y2R2	2P6X	HMDB0010393	5.919
P00450	2J5W	HMDB0000294	5.918
P09619	1GQ5	HMDB0000294	5.914
Q13255	1EWT	HMDB0010393	5.909
P17612	3MVJ	HMDB0000161	5.908
Q06124	2SHP	HMDB0000294	5.907
P21359	2D4Q	HMDB0000294	5.906
P35637	1G5G	HMDB0000294	5.905
P42345	4FAP	HMDB0034146	5.905
P01375	2AZ5	HMDB0034146	5.904
P06280	3HG3	HMDB0010396	5.904
P05019	1H02	HMDB0010393	5.903
Q99259	2OKJ	HMDB0000294	5.901

P42345	4FAP	HMDB0010383	5.899
P43354	1OVL	HMDB0000294	5.896
P01270	3C4M	HMDB0000294	5.895
P14416	2HLB	HMDB0000294	5.891
P29475	1F20	HMDB0010393	5.89
P01241	1AXI	HMDB0010396	5.885
P10912	1AXI	HMDB0010396	5.885
P27487	1W1I	HMDB0010396	5.884
Q9Y2R2	2P6X	HMDB0000294	5.883
P08833	1ZT3	HMDB0000294	5.882
Q15067	1W07	HMDB0000294	5.879
P04278	1LHV	HMDB0000294	5.878
P01241	1AXI	HMDB0010384	5.876
P10912	1AXI	HMDB0010384	5.876
P16278	1BOB	HMDB0010384	5.876
P29475	1F20	HMDB0010396	5.873
P62834	3KUC	HMDB0000294	5.873
P02787	1DAN	HMDB0034146	5.871
P26358	3EPZ	HMDB0000294	5.871
Q9UBK2	1XB7	HMDB0000294	5.869
P01375	2AZ5	HMDB0010396	5.869
P04637	1GZH	HMDB0010393	5.868
Q8NFD5	2EH9	HMDB0000294	5.868
P42858	3IO4	HMDB0000294	5.867
Q9NQC3	1OZN	HMDB0000294	5.864
P12821	1UZE	HMDB0000294	5.864
Q9UBP0	3B9P	HMDB0010393	5.863
Q9UBP0	3B9P	HMDB0000294	5.862
P07949	2IVS	HMDB0000294	5.859
P00441	1HL5	HMDB0000099	5.858
P36551	2AEX	HMDB0000294	5.858
P30793	1N3T	HMDB0000099	5.857
P04271	2H61	HMDB0000294	5.854
P06850	1MO1	HMDB0010393	5.853
P42858	3IO4	HMDB0010393	5.851
P51659	1IKT	HMDB0000294	5.846
P10145	1QE6	HMDB0010383	5.84
P04049	3CU8	HMDB0000294	5.84
P68871	1BAB	HMDB0010383	5.838
P04637	1GZH	HMDB0010384	5.837
P08397	3ECR	HMDB0000294	5.837
P06280	3HG3	HMDB0010384	5.836
Q14203	2HL5	HMDB0010383	5.834
P27986	1H9O	HMDB0000294	5.833
P01270	3C4M	HMDB0000099	5.833
P21802	1DJS	HMDB0000294	5.829
P10082	2ZA5	HMDB0010383	5.829
P35637	1G5G	HMDB0010383	5.824
Q15465	3M1N	HMDB0010393	5.824
P78504	2VJ2	HMDB0010396	5.821
P10082	2ZA5	HMDB0000294	5.821
P01112	1NVU	HMDB0000294	5.82
P06280	3HG3	HMDB0010383	5.819
P49917	3II6	HMDB0004610	5.818
P01112	1NVU	HMDB0034146	5.815
Q9Y2R2	2P6X	HMDB0010383	5.814
Q9Y243	2X18	HMDB0010384	5.812
Q7LG56	3HF1	HMDB0000294	5.809
Q15067	1W07	HMDB0000161	5.808
P06280	3HG3	HMDB0000294	5.808
P11274	1K1F	HMDB0000294	5.807
P29475	1F20	HMDB0010384	5.805
P30793	1N3T	HMDB0000294	5.804
P29475	1F20	HMDB0010383	5.8
P17612	3MVJ	HMDB0000294	5.8
P16278	1BOB	HMDB0010396	5.797
P28482	1PME	HMDB0000294	5.794
P42345	4FAP	HMDB0000294	5.793
Q15303	2AHX	HMDB0010384	5.792

P06280	3HG3	HMDB0004610	5.79
P04271	2H61	HMDB0010383	5.784
P01584	2NVH	HMDB0010384	5.784
P54098	1A1V	HMDB0000294	5.783
P29475	1F20	HMDB0034146	5.776
P01375	2AZ5	HMDB0010393	5.776
P11274	1K1F	HMDB0010383	5.773
P16435	3FJO	HMDB0010384	5.772
Q30201	1DEA	HMDB0000294	5.771
P27986	1H9O	HMDB0010383	5.771
P60568	1PY2	HMDB0000294	5.769
P06850	1MO1	HMDB0010383	5.764
P26358	3EPZ	HMDB0010383	5.762
P10145	1QE6	HMDB0000294	5.761
P27338	1OJA	HMDB0000159	5.758
Q14203	2HL5	HMDB0010396	5.758
P21397	2Z5Y	HMDB0000294	5.758
Q06787	2QND	HMDB0000294	5.757
P05019	1H02	HMDB0010383	5.756
Q99700	3KTR	HMDB0010384	5.752
P43354	1OVL	HMDB0034146	5.751
Q9Y2R2	2P6X	HMDB0010396	5.751
P62834	3KUC	HMDB0010383	5.749
P01375	2AZ5	HMDB0000294	5.746
Q15303	2AHX	HMDB0010393	5.743
P42336	3HHM	HMDB0000294	5.743
P10145	1QE6	HMDB0010384	5.742
P11274	1K1F	HMDB0010396	5.739
P05019	1H02	HMDB0010384	5.738
Q9BYW2	3H6L	HMDB0000294	5.733
P51608	3C2I	HMDB0010396	5.732
P55072	1Y8E	HMDB0010383	5.731
P04062	2NT0	HMDB0010396	5.731
P60568	1PY2	HMDB0010393	5.725
P62834	3KUC	HMDB0034146	5.723
Q08499	1MKD	HMDB0000294	5.717
Q8NFD5	2EH9	HMDB0010383	5.716
P16435	3FJO	HMDB0034146	5.716
Q99497	1PDW	HMDB0004610	5.714
P16435	3FJO	HMDB0010383	5.714
P20783	1BND	HMDB0010383	5.713
P23560	1BND	HMDB0010383	5.713
P42858	3IO4	HMDB0010383	5.712
P16278	1BOB	HMDB0010383	5.711
P22301	2ILK	HMDB0000161	5.711
Q9UBK2	1XB7	HMDB0010383	5.71
P22301	2ILK	HMDB0002329	5.707
P01116	1N4R	HMDB0000294	5.705
Q9Y2R2	2P6X	HMDB0010384	5.705
P04637	1GZH	HMDB0010383	5.704
P55072	1Y8E	HMDB0010393	5.704
P11274	1K1F	HMDB0010393	5.701
P42858	3IO4	HMDB0010384	5.698
P27986	1H9O	HMDB0010384	5.697
P14416	2HLB	HMDB0000161	5.697
P01584	2NVH	HMDB0010383	5.697
P60484	1D5R	HMDB0000294	5.694
P22301	2ILK	HMDB0000190	5.694
P16435	3FJO	HMDB0000294	5.691
P21964	3HVH	HMDB0000294	5.689
P01127	3MJG	HMDB0010393	5.689
P21802	1DJS	HMDB0000161	5.688
P06850	1MO1	HMDB0010396	5.686
P01127	3MJG	HMDB0010396	5.684
P21397	2Z5Y	HMDB0000161	5.683
P00441	1HL5	HMDB0000294	5.679
O15146	2IEP	HMDB0010384	5.679
P01308	1EVR	HMDB0000294	5.678
P01584	2NVH	HMDB0010396	5.678

P49917	3II6	HMDB0010396	5.677
Q13936	1T0J	HMDB0000161	5.676
Q15303	2AHX	HMDB0010396	5.675
P02768	1E7A	HMDB0000294	5.672
P21397	2Z5Y	HMDB0000159	5.672
P51608	3C2I	HMDB0010383	5.671
P01127	3MJG	HMDB0010383	5.671
P26358	3EPZ	HMDB0010393	5.666
Q99700	3KTR	HMDB0010393	5.666
P01127	3MJG	HMDB0000294	5.666
P01589	3IU3	HMDB0000161	5.664
P01920	1UVQ	HMDB0000161	5.663
P35637	1G5G	HMDB0010384	5.661
Q13936	1T0J	HMDB0000190	5.661
Q9Y617	3E77	HMDB0000294	5.66
P08833	1ZT3	HMDB0010396	5.658
P78504	2VJ2	HMDB0010393	5.658
P55072	1Y8E	HMDB0010384	5.657
P01589	3IU3	HMDB0000294	5.657
Q5S007	3D6T	HMDB0000294	5.656
P27361	3FXW	HMDB0000294	5.656
P36551	2AEX	HMDB0000123	5.654
Q13255	1EWT	HMDB0000161	5.652
P27487	1W1I	HMDB0000161	5.652
P42858	3IO4	HMDB0010396	5.652
P35520	1M54	HMDB0000161	5.651
O43612	1UV0	HMDB0010393	5.651
P15289	2AIJ	HMDB0000161	5.651
P27986	1H9O	HMDB0010396	5.65
P16278	1BOB	HMDB0034146	5.645
P42858	3IO4	HMDB0000161	5.645
P20783	1BND	HMDB0010384	5.644
P23560	1BND	HMDB0010384	5.644
P51608	3C2I	HMDB0000161	5.643
P03372	1HCQ	HMDB0000294	5.639
P30793	1N3T	HMDB0000161	5.637
P26358	3EPZ	HMDB0004610	5.637
Q15303	2AHX	HMDB0010383	5.636
P01911	2WBJ	HMDB0010383	5.635
P11274	1K1F	HMDB0010384	5.633
P60568	1PY2	HMDB0010384	5.631
O15146	2IEP	HMDB0010383	5.629
P27487	1W1I	HMDB0010384	5.628
P26358	3EPZ	HMDB0010396	5.628
P06850	1MO1	HMDB0010384	5.627
P55072	1Y8E	HMDB0010396	5.625
P01584	2NVH	HMDB0010393	5.623
Q9UBP0	3B9P	HMDB0004610	5.621
Q9UBK2	1XB7	HMDB0010396	5.618
Q99497	1PDW	HMDB0010393	5.617
O43612	1UV0	HMDB0010384	5.617
P49917	3II6	HMDB0000294	5.617
P05067	2FK3	HMDB0010383	5.616
P60484	1D5R	HMDB0034146	5.613
Q7LG56	3HF1	HMDB0010383	5.612
Q99259	2OKJ	HMDB0000123	5.608
Q99700	3KTR	HMDB0000294	5.608
P01127	3MJG	HMDB0010384	5.608
Q9Y617	3E77	HMDB0000123	5.606
Q06787	2QND	HMDB0010383	5.606
Q16620	1HCF	HMDB0010393	5.605
P04150	1P93	HMDB0000294	5.603
P26358	3EPZ	HMDB0010384	5.602
Q7LG56	3HF1	HMDB0010384	5.602
P04062	2NT0	HMDB0010393	5.601
P08397	3ECR	HMDB0000099	5.6
P04062	2NT0	HMDB0010383	5.599
Q06787	2QND	HMDB0010384	5.599
O43612	1UV0	HMDB0010383	5.597

Q99700	3KTR	HMDB0010383	5.597
P60568	1PY2	HMDB0010383	5.595
P08397	3ECR	HMDB0000161	5.595
P49917	3II6	HMDB0010384	5.595
P51659	1IKT	HMDB0000099	5.593
O15146	2IEP	HMDB0000294	5.593
P00450	2J5W	HMDB0010384	5.591
P39905	2V5E	HMDB0010384	5.59
Q99497	1PDW	HMDB0034146	5.588
Q02750	3EQC	HMDB0000294	5.588
Q16620	1HCF	HMDB0010384	5.587
Q15465	3M1N	HMDB0010383	5.586
P27338	1OJA	HMDB0000123	5.585
P00450	2J5W	HMDB0010393	5.585
P04278	1LHV	HMDB0000161	5.582
Q13936	1T0J	HMDB0001494	5.581
P49917	3II6	HMDB0010383	5.579
P08069	3F5P	HMDB0000294	5.577
P04637	1GZH	HMDB00004610	5.576
P78509	2DDU	HMDB00004610	5.576
P28329	2FY3	HMDB0000294	5.575
P78504	2VJ2	HMDB0010384	5.574
Q30201	1DEA	HMDB0000161	5.573
P02741	1CGP	HMDB0000123	5.572
P09619	1GQ5	HMDB0010396	5.572
P20783	1BND	HMDB0000294	5.571
P23560	1BND	HMDB0000294	5.571
P27986	1H9O	HMDB0010393	5.571
P16220	1DH3	HMDB0000294	5.57
P17612	3MVJ	HMDB0000123	5.568
P78509	2DDU	HMDB0000294	5.566
P49917	3II6	HMDB0010393	5.565
P02787	1DAN	HMDB0000294	5.562
P20783	1BND	HMDB0010396	5.56
P23560	1BND	HMDB0010396	5.56
P01911	2WBJ	HMDB0010384	5.558
P01241	1AXI	HMDB0010383	5.557
P10912	1AXI	HMDB0010383	5.557
P07949	2IVS	HMDB0000161	5.557
Q06124	2SHP	HMDB0000123	5.557
Q9UBP0	3B9P	HMDB0010384	5.557
Q8NER1	2NYJ	HMDB0010383	5.556
P12821	1UZE	HMDB0000161	5.555
Q15303	2AHX	HMDB0000294	5.552
Q7LG56	3HF1	HMDB0010393	5.552
P27487	1W1I	HMDB0010383	5.55
P02787	1DAN	HMDB0010384	5.548
Q15067	1W07	HMDB0000123	5.541
Q5S007	3D6T	HMDB0000190	5.537
P05019	1H02	HMDB0000294	5.534
P14902	2D0T	HMDB0000161	5.534
Q9UBK2	1XB7	HMDB0000161	5.533
Q7LG56	3HF1	HMDB0010396	5.533
P05067	2FK3	HMDB0000294	5.531
Q9UBK2	1XB7	HMDB0010384	5.53
Q99497	1PDW	HMDB0010383	5.527
Q9UBP0	3B9P	HMDB0010383	5.523
P51608	3C2I	HMDB0000294	5.523
Q8NFD5	2EH9	HMDB0034146	5.521
Q08499	1MKD	HMDB0000925	5.52
Q14203	2HL5	HMDB0010393	5.517
Q30201	1DEA	HMDB0000123	5.516
Q08499	1MKD	HMDB0000123	5.513
Q8NER1	2NYJ	HMDB0010396	5.513
Q5S007	3D6T	HMDB0010396	5.511
P01579	1EKU	HMDB0010384	5.507
Q9UBK2	1XB7	HMDB0010393	5.503
Q99700	3KTR	HMDB0000161	5.503
Q99497	1PDW	HMDB0010396	5.5

P27986	1H9O	HMDB0004610	5.496
P12821	1UZE	HMDB0000123	5.496
Q5S007	3D6T	HMDB0010383	5.495
P04062	2NT0	HMDB0010384	5.494
Q16620	1HCF	HMDB0010383	5.493
O43612	1UV0	HMDB0010396	5.493
P78509	2DDU	HMDB0010383	5.493
P21333	2WFN	HMDB0010393	5.493
P11362	1CVS	HMDB0010383	5.492
P23771	3DFV	HMDB0000294	5.49
P20783	1BND	HMDB0010393	5.489
P23560	1BND	HMDB0010393	5.489
Q9NQC3	1OZN	HMDB0010383	5.488
Q9Y617	3E77	HMDB0000161	5.487
P08833	1ZT3	HMDB0010384	5.487
Q8NER1	2NYJ	HMDB0010393	5.487
Q03431	3L2J	HMDB0000161	5.487
P08397	3ECR	HMDB0000123	5.486
P21802	1DJS	HMDB0000123	5.483
P31749	2UZS	HMDB0010393	5.48
Q9NQC3	1OZN	HMDB0010384	5.477
P30793	1N3T	HMDB0000925	5.475
Q16620	1HCF	HMDB0010396	5.474
Q9NQC3	1OZN	HMDB0010396	5.473
P03372	1HCQ	HMDB0000099	5.471
P08833	1ZT3	HMDB0010393	5.471
Q5S007	3D6T	HMDB0010393	5.47
P68871	1BAB	HMDB0000122	5.469
P27338	1OJA	HMDB0000925	5.467
P01138	1SG1	HMDB0000122	5.467
O15146	2IEP	HMDB0004610	5.467
P01270	3C4M	HMDB0000122	5.466
Q16620	1HCF	HMDB0004610	5.465
P14902	2D0T	HMDB0000122	5.465
P78509	2DDU	HMDB0034146	5.465
P01270	3C4M	HMDB0000161	5.465
P51659	1IKT	HMDB0000122	5.464
P10145	1QE6	HMDB0004610	5.462
Q03431	3L2J	HMDB0000123	5.461
P14416	2HLB	HMDB0000123	5.46
Q99700	3KTR	HMDB0000925	5.458
O15146	2IEP	HMDB0010396	5.457
Q5S007	3D6T	HMDB0010384	5.457
P01241	1AXI	HMDB0000294	5.456
P10912	1AXI	HMDB0000294	5.456
P21964	3HVH	HMDB0000122	5.453
P15056	3II5	HMDB0000122	5.453
P22301	2ILK	HMDB0000123	5.452
P04278	1LHV	HMDB0000123	5.451
Q8NER1	2NYJ	HMDB0010384	5.451
Q03431	3L2J	HMDB0000122	5.45
P09619	1GQ5	HMDB0010393	5.449
P01375	2AZ5	HMDB0010383	5.447
O15146	2IEP	HMDB0010393	5.447
P01127	3MJG	HMDB0000925	5.447
P36551	2AEX	HMDB0000122	5.446
P14416	2HLB	HMDB0000925	5.445
P04278	1LHV	HMDB0000122	5.444
P17612	3MVJ	HMDB0000122	5.443
Q16620	1HCF	HMDB0034146	5.442
P05231	1ALU	HMDB0010384	5.441
P11362	1CVS	HMDB0010384	5.439
P31749	2UZS	HMDB0010384	5.439
Q15067	1W07	HMDB0000122	5.438
P04062	2NT0	HMDB0004610	5.438
Q30201	1DEA	HMDB0000122	5.436
P27361	3FXW	HMDB0000122	5.436
P42336	3HHM	HMDB0000099	5.435
P41159	3IIQ	HMDB0010393	5.435

P05019	1H02	HMDB0000925	5.434
O00555	3BXK	HMDB0010393	5.434
P15056	3II5	HMDB0000099	5.434
P28482	1PME	HMDB0000122	5.432
P21802	1DJS	HMDB0000122	5.431
Q99259	2OKJ	HMDB0000122	5.43
P39905	2V5E	HMDB0010383	5.43
P30793	1N3T	HMDB0000122	5.428
P08833	1ZT3	HMDB0010383	5.428
P30793	1N3T	HMDB0000123	5.427
P09619	1GQ5	HMDB0004610	5.426
P05231	1ALU	HMDB0010383	5.425
P55072	1Y8E	HMDB0000161	5.425
P14416	2HLB	HMDB0000122	5.425
Q14203	2HL5	HMDB0010384	5.424
P04150	1P93	HMDB0000122	5.423
P01303	1R9N	HMDB0010384	5.423
P39905	2V5E	HMDB0010393	5.423
P41159	3IIQ	HMDB0010396	5.422
P02787	1DAN	HMDB0010383	5.421
P22301	2ILK	HMDB0000925	5.421
Q9Y2R2	2P6X	HMDB0034146	5.421
O00555	3BXK	HMDB0010396	5.421
P01116	1N4R	HMDB0000122	5.42
P21333	2WFN	HMDB0010383	5.419
Q9BYW2	3H6L	HMDB0000122	5.419
Q99497	1PDW	HMDB0010384	5.418
P39905	2V5E	HMDB0001494	5.416
P21333	2WFN	HMDB0034146	5.416
Q06787	2QND	HMDB0004610	5.414
P60568	1PY2	HMDB0000925	5.414
P51608	3C2I	HMDB0000925	5.413
P26358	3EPZ	HMDB0001494	5.413
P22301	2ILK	HMDB0001494	5.411
P20783	1BND	HMDB0000925	5.41
P23560	1BND	HMDB0000925	5.41
P01584	2NVH	HMDB0000925	5.41
P78504	2VJ2	HMDB0010383	5.41
P21333	2WFN	HMDB0004610	5.408
Q13255	1EWT	HMDB0000294	5.407
P04271	2H61	HMDB0000122	5.407
P01241	1AXI	HMDB0000925	5.406
P10912	1AXI	HMDB0000925	5.406
P02768	1E7A	HMDB0000122	5.405
O00555	3BXK	HMDB0000925	5.405
Q13936	1T0J	HMDB0000123	5.401
Q9UBK2	1XB7	HMDB0004610	5.4
P00450	2J5W	HMDB0010383	5.4
P00450	2J5W	HMDB0010396	5.4
O00555	3BXK	HMDB0010384	5.4
P01303	1R9N	HMDB0010393	5.399
P39905	2V5E	HMDB0010396	5.399
Q06124	2SHP	HMDB0000122	5.398
P16278	1BOB	HMDB0001494	5.397
Q06787	2QND	HMDB0001494	5.397
P35520	1M54	HMDB0000925	5.394
P11362	1CVS	HMDB0001494	5.393
Q5S007	3D6T	HMDB0000925	5.393
P01920	1UVQ	HMDB0000123	5.392
P01270	3C4M	HMDB0000123	5.392
P06850	1MO1	HMDB0000925	5.391
P04062	2NT0	HMDB0000925	5.391
P08397	3ECR	HMDB0000122	5.391
P05231	1ALU	HMDB0000925	5.389
P09619	1GQ5	HMDB0010383	5.389
P01589	3IU3	HMDB0000123	5.389
P35637	1G5G	HMDB0000925	5.388
P43354	1OVL	HMDB0001494	5.388
O43612	1UV0	HMDB0000925	5.388

Q9UBK2	1XB7	HMDB0000925	5.388
P27338	1OJA	HMDB0000122	5.387
P01911	2WBJ	HMDB0000925	5.387
P27986	1H9O	HMDB0000122	5.386
P42858	3IO4	HMDB0000925	5.385
P05231	1ALU	HMDB0034146	5.384
P08397	3ECR	HMDB0000925	5.384
P02741	1CGP	HMDB0000122	5.383
Q9NQC3	1OZN	HMDB0000925	5.383
Q9Y617	3E77	HMDB0000122	5.382
Q15303	2AHX	HMDB0000123	5.382
P15289	2AIJ	HMDB0000123	5.382
P35520	1M54	HMDB0000123	5.381
Q08499	1MKD	HMDB0000122	5.38
P14902	2D0T	HMDB0000123	5.38
P11362	1CVS	HMDB0010393	5.379
P21359	2D4Q	HMDB0000641	5.379
P05067	2FK3	HMDB0000122	5.379
P16435	3FJO	HMDB0000122	5.379
Q02750	3EQC	HMDB0000122	5.378
P22301	2ILK	HMDB0000294	5.377
P60484	1D5R	HMDB0000122	5.375
P29475	1F20	HMDB0000122	5.375
P60484	1D5R	HMDB0010383	5.374
P11274	1K1F	HMDB0000925	5.374
Q06124	2SHP	HMDB0010383	5.374
P31749	2UZS	HMDB0010383	5.374
P21397	2Z5Y	HMDB0000122	5.374
P42336	3HHM	HMDB0000122	5.374
P00450	2J5W	HMDB0000925	5.373
P11362	1CVS	HMDB0034146	5.372
P10145	1QE6	HMDB0000122	5.372
P11274	1K1F	HMDB0034146	5.371
P27487	1W1I	HMDB0000123	5.371
Q9Y2R2	2P6X	HMDB0000925	5.371
P11362	1CVS	HMDB0000925	5.37
P05019	1H02	HMDB0000161	5.37
P08833	1ZT3	HMDB00004610	5.369
P15289	2AIJ	HMDB0000294	5.369
Q16620	1HCF	HMDB0001494	5.368
Q15303	2AHX	HMDB00004610	5.368
P54098	1A1V	HMDB0000099	5.367
P05019	1H02	HMDB00004610	5.366
P01911	2WBJ	HMDB0001494	5.366
P08069	3F5P	HMDB0000122	5.365
P02787	1DAN	HMDB0000122	5.364
P01920	1UVQ	HMDB0000294	5.363
P35520	1M54	HMDB0000122	5.362
Q06787	2QND	HMDB0000925	5.362
Q9Y243	2X18	HMDB0000122	5.362
P06850	1MO1	HMDB0000294	5.361
P78509	2DDU	HMDB0000925	5.361
P00450	2J5W	HMDB00004610	5.361
Q14203	2HL5	HMDB0000294	5.36
Q43612	1UV0	HMDB00004610	5.359
Q9UBK2	1XB7	HMDB0000123	5.359
P05231	1ALU	HMDB0001494	5.358
P01579	1EKU	HMDB00004610	5.357
Q16620	1HCF	HMDB0000925	5.357
P10082	2ZA5	HMDB0000122	5.357
P26358	3EPZ	HMDB0034146	5.357
P04637	1GZH	HMDB0000122	5.356
P42345	4FAP	HMDB0001494	5.354
P01911	2WBJ	HMDB0010393	5.352
P06280	3HG3	HMDB0034146	5.352
O00555	3B XK	HMDB0010383	5.351
P11362	1CVS	HMDB0010396	5.35
P09619	1GQ5	HMDB0010384	5.35
O15146	2IEP	HMDB0000122	5.35

P04062	2NT0	HMDB0000122	5.35
P11362	1CVS	HMDB0004610	5.349
P01138	1SG1	HMDB0000294	5.347
P21964	3HVH	HMDB0010383	5.347
P01579	1EKU	HMDB0001494	5.346
P21333	2WFN	HMDB0010396	5.346
Q06124	2SHP	HMDB0000641	5.344
P05231	1ALU	HMDB0010396	5.342
P54098	1A1V	HMDB0000122	5.341
Q8NER1	2NYJ	HMDB0034146	5.341
P08833	1ZT3	HMDB0034146	5.339
P21964	3HVH	HMDB0001494	5.339
P02741	1CGP	HMDB0001494	5.338
P02768	1E7A	HMDB0000123	5.338
P01308	1EVR	HMDB0000122	5.338
P01303	1R9N	HMDB0004610	5.337
P31749	2UZS	HMDB0010396	5.336
P16220	1DH3	HMDB0010384	5.335
P41159	3IIQ	HMDB0010383	5.334
P41159	3IIQ	HMDB0000925	5.333
P41159	3IIQ	HMDB0010384	5.332
P05231	1ALU	HMDB0010393	5.33
P68871	1BAB	HMDB0000161	5.328
Q13255	1EWT	HMDB0000123	5.328
P28329	2FY3	HMDB0000122	5.328
P16220	1DH3	HMDB0010383	5.327
P03372	1HCQ	HMDB0000122	5.327
P12821	1UZE	HMDB0000122	5.326
P01584	2NVH	HMDB0004610	5.326
Q9Y243	2X18	HMDB0001494	5.326
P08397	3ECR	HMDB0001494	5.326
P21359	2D4Q	HMDB0000161	5.324
Q06124	2SHP	HMDB0001494	5.323
P42345	4FAP	HMDB0000122	5.322
P01911	2WBJ	HMDB0010396	5.32
P60568	1PY2	HMDB0000161	5.32
P01270	3C4M	HMDB0000925	5.316
P27986	1H9O	HMDB0001494	5.315
P27986	1H9O	HMDB0034146	5.315
P23771	3DFV	HMDB0000122	5.314
P05019	1H02	HMDB0000122	5.313
P21333	2WFN	HMDB0010384	5.313
P41159	3IIQ	HMDB0034146	5.313
P42858	3IO4	HMDB0000123	5.313
P43354	1OVL	HMDB0000099	5.311
Q13936	1T0J	HMDB0000294	5.311
P31749	2UZS	HMDB0004610	5.309
P49917	3II6	HMDB0000122	5.309
P21359	2D4Q	HMDB0000122	5.308
Q7LG56	3HF1	HMDB0004610	5.307
P01911	2WBJ	HMDB0000122	5.306
P14416	2HLB	HMDB0000641	5.305
P06280	3HG3	HMDB0001494	5.305
P30793	1N3T	HMDB0001494	5.303
P62834	3KUC	HMDB0001494	5.303
Q7LG56	3HF1	HMDB0001494	5.302
P04049	3CU8	HMDB0000099	5.301
P01303	1R9N	HMDB0010383	5.298
Q08499	1MKD	HMDB0000161	5.297
Q15067	1W07	HMDB0001494	5.297
P01375	2AZ5	HMDB0010384	5.297
P39905	2V5E	HMDB0000122	5.297
Q99497	1PDW	HMDB0000161	5.296
Q15303	2AHX	HMDB0000122	5.292
Q06787	2QND	HMDB0034146	5.292
P04278	1LHV	HMDB0000641	5.291
P35520	1M54	HMDB0001494	5.29
P07949	2IVS	HMDB0000123	5.29
P36551	2AEX	HMDB0000641	5.289

Q9Y617	3E77	HMDB0000925	5.288
P01584	2NVH	HMDB0001494	5.288
P15056	3II5	HMDB0001494	5.288
P01303	1R9N	HMDB0010396	5.287
P49917	3II6	HMDB0034146	5.286
P16220	1DH3	HMDB0010393	5.285
P16220	1DH3	HMDB0010396	5.285
P51659	1IKT	HMDB0000161	5.283
P00450	2J5W	HMDB0001494	5.283
P41159	3IIQ	HMDB00004610	5.282
O43612	1UV0	HMDB0000122	5.28
P14902	2D0T	HMDB0000641	5.279
Q30201	1DEA	HMDB0001494	5.278
P02768	1E7A	HMDB0000161	5.275
P27338	1OJA	HMDB0000294	5.275
P01911	2WBJ	HMDB00004610	5.275
P36551	2AEX	HMDB0001494	5.272
Q9UBK2	1XB7	HMDB0000122	5.271
P21359	2D4Q	HMDB0001494	5.271
P20783	1BND	HMDB00004610	5.27
P23560	1BND	HMDB00004610	5.27
P09619	1GQ5	HMDB0000122	5.269
P78504	2VJ2	HMDB0000122	5.269
P02741	1CGP	HMDB0000641	5.268
P35520	1M54	HMDB0000641	5.268
P14902	2D0T	HMDB0001494	5.268
P04049	3CU8	HMDB0001494	5.266
P60568	1PY2	HMDB0001494	5.266
P04278	1LHV	HMDB0001494	5.265
P04049	3CU8	HMDB0000122	5.265
P51659	1IKT	HMDB0001494	5.264
P43354	1OVL	HMDB0000122	5.263
Q16620	1HCF	HMDB0000122	5.262
P78509	2DDU	HMDB0010393	5.258
Q7LG56	3HF1	HMDB0000123	5.258
Q03431	3L2J	HMDB0000641	5.258
P55072	1Y8E	HMDB0000294	5.257
P12821	1UZE	HMDB0001494	5.255
P20783	1BND	HMDB0001494	5.254
P23560	1BND	HMDB0001494	5.254
O00555	3BXK	HMDB0034146	5.254
P54098	1A1V	HMDB0001494	5.253
P78504	2VJ2	HMDB0000294	5.253
P14416	2HLB	HMDB0001494	5.251
P07949	2IVS	HMDB0000122	5.251
Q8NER1	2NYJ	HMDB0001494	5.251
P60568	1PY2	HMDB00004610	5.251
P01127	3MJG	HMDB0001494	5.251
Q15465	3M1N	HMDB00004610	5.25
P55072	1Y8E	HMDB0000925	5.249
P27487	1W1I	HMDB00004610	5.248
P01127	3MJG	HMDB0000122	5.248
P05231	1ALU	HMDB00004610	5.247
P04637	1GZH	HMDB0034146	5.246
P04278	1LHV	HMDB0003681	5.246
P41159	3IIQ	HMDB0001494	5.246
P62834	3KUC	HMDB0000925	5.246
P35637	1G5G	HMDB00004610	5.245
P01270	3C4M	HMDB0000641	5.24
P31749	2UZS	HMDB0034146	5.235
Q9BYW2	3H6L	HMDB0001494	5.234
P01579	1EKU	HMDB0034146	5.233
P02768	1E7A	HMDB0000925	5.231
P09619	1GQ5	HMDB0001494	5.231
P54098	1A1V	HMDB0000641	5.23
P39905	2V5E	HMDB0034146	5.23
P55072	1Y8E	HMDB0000122	5.228
P28482	1PME	HMDB0001494	5.227
P11274	1K1F	HMDB0001494	5.226

P16220	1DH3	HMDB0000161	5.225
P01303	1R9N	HMDB0034146	5.225
Q15465	3M1N	HMDB0001494	5.223
Q5S007	3D6T	HMDB00004610	5.221
O43612	1UV0	HMDB0001494	5.219
Q99497	1PDW	HMDB0001494	5.218
P04049	3CU8	HMDB0000161	5.217
Q9UBP0	3B9P	HMDB0001494	5.216
P16278	1BOB	HMDB0000122	5.215
P09619	1GQ5	HMDB0034146	5.213
P10145	1QE6	HMDB0034146	5.213
P01241	1AXI	HMDB0001494	5.209
P10912	1AXI	HMDB0001494	5.209
P68871	1BAB	HMDB0000123	5.209
P21802	1DJS	HMDB0000925	5.209
P01112	1NVU	HMDB0001494	5.209
P01241	1AXI	HMDB0004610	5.207
P10912	1AXI	HMDB0004610	5.207
Q8NFD5	2EH9	HMDB0000122	5.206
Q9BYW2	3H6L	HMDB0000161	5.204
P01116	1N4R	HMDB0003681	5.203
P01911	2WBJ	HMDB0034146	5.203
Q9Y617	3E77	HMDB0001494	5.201
P28482	1PME	HMDB0000161	5.199
P01375	2AZ5	HMDB0001494	5.199
Q9NQC3	1OZN	HMDB0004610	5.198
P78509	2DDU	HMDB0001494	5.198
P01375	2AZ5	HMDB0000122	5.196
Q99259	2OKJ	HMDB0001494	5.195
P01116	1N4R	HMDB0000641	5.194
P78509	2DDU	HMDB0000161	5.194
P04637	1GZH	HMDB0000925	5.193
P06850	1MO1	HMDB0004610	5.192
P10145	1QE6	HMDB0000161	5.192
Q15303	2AHX	HMDB0001494	5.192
P17612	3MVJ	HMDB0001494	5.192
P51608	3C2I	HMDB0004610	5.188
P03372	1HCQ	HMDB0000925	5.187
P05231	1ALU	HMDB0000122	5.186
P78504	2VJ2	HMDB0001494	5.186
P04049	3CU8	HMDB0000123	5.18
P20783	1BND	HMDB0000122	5.179
P23560	1BND	HMDB0000122	5.179
P04271	2H61	HMDB0001494	5.179
P06280	3HG3	HMDB0000925	5.177
P27487	1W1I	HMDB0001494	5.176
P04062	2NT0	HMDB0001494	5.176
P35637	1G5G	HMDB0001494	5.173
Q99700	3KTR	HMDB0000123	5.173
P10145	1QE6	HMDB0000123	5.169
P10082	2ZA5	HMDB0000641	5.169
P68871	1BAB	HMDB0000925	5.168
Q9Y243	2X18	HMDB0000925	5.168
P42345	4FAP	HMDB0000641	5.168
P01589	3IU3	HMDB0004610	5.167
Q08499	1MKD	HMDB0000641	5.166
P55072	1Y8E	HMDB0001494	5.165
P42858	3IO4	HMDB0004610	5.165
P35637	1G5G	HMDB0000161	5.164
P28329	2FY3	HMDB0000161	5.164
P11362	1CVS	HMDB0000122	5.163
P55072	1Y8E	HMDB0004610	5.162
P12821	1UZE	HMDB0000641	5.161
P05067	2FK3	HMDB0000925	5.16
P28329	2FY3	HMDB0000641	5.16
P00441	1HL5	HMDB0001494	5.159
P20783	1BND	HMDB0000161	5.157
P23560	1BND	HMDB0000161	5.157
P27361	3FXW	HMDB0000925	5.157

P62834	3KUC	HMDB0000122	5.157
Q7LG56	3HF1	HMDB0000122	5.156
Q9NQC3	1OZN	HMDB0001494	5.155
P15289	2AIJ	HMDB0001494	5.155
P54098	1A1V	HMDB0000161	5.154
P60484	1D5R	HMDB0010384	5.154
P78504	2VJ2	HMDB0004610	5.152
Q02750	3EQC	HMDB0000641	5.151
P01138	1SG1	HMDB0000641	5.15
P60568	1PY2	HMDB0000122	5.149
P01579	1EKU	HMDB0000122	5.148
Q14203	2HL5	HMDB0000161	5.147
Q06787	2QND	HMDB0000122	5.147
P04637	1GZH	HMDB0001494	5.146
P21964	3HVH	HMDB0000123	5.146
Q15067	1W07	HMDB0000641	5.144
P01584	2NVH	HMDB0000122	5.144
P10082	2ZA5	HMDB0000099	5.144
P08069	3F5P	HMDB0001494	5.144
P00450	2J5W	HMDB0000161	5.142
Q99497	1PDW	HMDB0000123	5.14
P15289	2AIJ	HMDB0004610	5.139
Q9BYW2	3H6L	HMDB0000641	5.139
P35637	1G5G	HMDB0034146	5.138
P04062	2NT0	HMDB0034146	5.138
P68871	1BAB	HMDB0000641	5.134
P11274	1K1F	HMDB0000122	5.132
P43354	1OVL	HMDB0000641	5.131
Q5S007	3D6T	HMDB0001494	5.131
P21964	3HVH	HMDB0000641	5.131
P26358	3EPZ	HMDB0000122	5.129
Q14203	2HL5	HMDB0004610	5.127
Q99700	3KTR	HMDB0000122	5.124
Q30201	1DEA	HMDB0000641	5.123
Q9NQC3	1OZN	HMDB0000161	5.123
P04150	1P93	HMDB0000641	5.122
P02768	1E7A	HMDB0000641	5.12
Q13255	1EWT	HMDB0004610	5.119
P05067	2FK3	HMDB0000099	5.117
P08833	1ZT3	HMDB0000122	5.116
P27361	3FXW	HMDB0000123	5.116
Q99497	1PDW	HMDB0000122	5.114
P01584	2NVH	HMDB0034146	5.114
Q00555	3BXK	HMDB0000122	5.114
Q7LG56	3HF1	HMDB0000161	5.114
P62834	3KUC	HMDB0000641	5.113
Q9Y2R2	2P6X	HMDB0000122	5.112
P31749	2UZS	HMDB0000122	5.112
P05019	1H02	HMDB0000123	5.111
P00450	2J5W	HMDB0000122	5.111
P01116	1N4R	HMDB0000123	5.11
Q15067	1W07	HMDB0000190	5.109
Q8NFD5	2EH9	HMDB0000099	5.108
P02787	1DAN	HMDB0000641	5.107
P05067	2FK3	HMDB0000641	5.107
P01584	2NVH	HMDB0000161	5.107
P42336	3HHM	HMDB0001494	5.106
P16220	1DH3	HMDB0004610	5.104
P27338	1OJA	HMDB0000641	5.104
P00441	1HL5	HMDB0000122	5.103
Q06787	2QND	HMDB0000161	5.103
P06280	3HG3	HMDB0000122	5.103
Q9Y617	3E77	HMDB0000641	5.102
Q99259	2OKJ	HMDB0000641	5.101
Q9UBK2	1XB7	HMDB0034146	5.095
P01112	1NVU	HMDB0000122	5.093
P08397	3ECR	HMDB0000641	5.093
Q9UBP0	3B9P	HMDB0000122	5.092
P29475	1F20	HMDB0000641	5.088

P04062	2NT0	HMDB0000161	5.088
P60568	1PY2	HMDB0034146	5.087
P21397	2Z5Y	HMDB0000641	5.085
P41159	3IIQ	HMDB0000122	5.082
P01579	1EKU	HMDB0000161	5.077
P27361	3FXW	HMDB0000641	5.077
Q03431	3L2J	HMDB0003681	5.077
P27338	1OJA	HMDB0003681	5.076
P02741	1CGP	HMDB0000190	5.072
P36551	2AEX	HMDB0000883	5.072
P01303	1R9N	HMDB0000122	5.071
P06850	1MO1	HMDB0000122	5.068
P20783	1BND	HMDB0034146	5.067
P23560	1BND	HMDB0034146	5.067
P00441	1HL5	HMDB0000123	5.067
P01589	3IU3	HMDB0002329	5.067
P01589	3IU3	HMDB0034146	5.065
Q8NER1	2NYJ	HMDB0000122	5.062
P16220	1DH3	HMDB0000122	5.059
Q15303	2AHX	HMDB0000161	5.059
Q9Y243	2X18	HMDB0000099	5.057
P27487	1W1I	HMDB0000122	5.056
O15146	2IEP	HMDB0034146	5.055
Q5S007	3D6T	HMDB0000122	5.055
P01589	3IU3	HMDB0000122	5.055
P16220	1DH3	HMDB0034146	5.052
P01308	1EVR	HMDB0000641	5.052
Q9NQC3	1OZN	HMDB0000122	5.052
P04049	3CU8	HMDB0000641	5.051
P01127	3MJG	HMDB0000161	5.051
P02787	1DAN	HMDB0000099	5.05
P04150	1P93	HMDB0000925	5.05
P00441	1HL5	HMDB0000161	5.049
Q06787	2QND	HMDB0000641	5.049
P04150	1P93	HMDB0003681	5.048
Q9Y243	2X18	HMDB0000641	5.048
P62834	3KUC	HMDB0000099	5.048
Q16620	1HCF	HMDB0000099	5.047
P07949	2IVS	HMDB0000641	5.047
P78504	2VJ2	HMDB0000161	5.047
Q15465	3M1N	HMDB0000122	5.047
P27361	3FXW	HMDB0000161	5.046
P01241	1AXI	HMDB0000122	5.044
P10912	1AXI	HMDB0000122	5.044
Q14203	2HL5	HMDB0000122	5.044
P42345	4FAP	HMDB0000161	5.044
Q9NQC3	1OZN	HMDB0034146	5.043
P30793	1N3T	HMDB0000641	5.041
P55072	1Y8E	HMDB0000190	5.041
P42858	3IO4	HMDB0000122	5.041
P02768	1E7A	HMDB0003681	5.04
P21802	1DJS	HMDB0000641	5.039
P04271	2H61	HMDB0000641	5.039
P51608	3C2I	HMDB0000122	5.039
Q7LG56	3HF1	HMDB0034146	5.037
P15056	3II5	HMDB0000161	5.035
P78509	2DDU	HMDB0000122	5.034
P21333	2WFN	HMDB0000122	5.034
P08069	3F5P	HMDB0000925	5.034
P01241	1AXI	HMDB0000123	5.033
P10912	1AXI	HMDB0000123	5.033
Q30201	1DEA	HMDB0003681	5.033
O43612	1UV0	HMDB0034146	5.033
P28329	2FY3	HMDB0000123	5.031
P01589	3IU3	HMDB0000190	5.03
P01920	1UVQ	HMDB0004610	5.027
P20783	1BND	HMDB0000123	5.026
P23560	1BND	HMDB0000123	5.026
P08833	1ZT3	HMDB0000161	5.026

P21397	2Z5Y	HMDB0001494	5.026
P35637	1G5G	HMDB0000122	5.021
P28482	1PME	HMDB0000123	5.021
P16435	3FJO	HMDB0000099	5.02
P22301	2ILK	HMDB0004610	5.018
P08069	3F5P	HMDB0000099	5.018
P01308	1EVR	HMDB0000161	5.017
P05067	2FK3	HMDB0000161	5.016
Q9BYW2	3H6L	HMDB0000123	5.015
P06280	3HG3	HMDB0000099	5.015
P05019	1H02	HMDB0000190	5.013
P16278	1BOB	HMDB0000641	5.012
Q16620	1HCF	HMDB0000161	5.011
P39905	2V5E	HMDB0000161	5.011
Q9BYW2	3H6L	HMDB0000925	5.011
P42336	3HHM	HMDB0000641	5.006
O00555	3BXK	HMDB0000161	5.004
P05019	1H02	HMDB0034146	5.003
Q99700	3KTR	HMDB0034146	5.002
P09619	1GQ5	HMDB0000161	5.001
P20783	1BND	HMDB0000190	5
P23560	1BND	HMDB0000190	5
O43612	1UV0	HMDB0000161	4.998
Q13255	1EWT	HMDB0000122	4.994
Q06124	2SHP	HMDB0000190	4.994
Q16620	1HCF	HMDB0000641	4.993
Q99700	3KTR	HMDB0002329	4.992
P15289	2AIJ	HMDB0000122	4.989
P60568	1PY2	HMDB0000190	4.988
P11362	1CVS	HMDB0000161	4.987
P28482	1PME	HMDB0000641	4.987
P12821	1UZE	HMDB0000190	4.987
P21964	3HVH	HMDB0000161	4.986
P01116	1N4R	HMDB0000161	4.984
P01112	1NVU	HMDB0000641	4.984
P26358	3EPZ	HMDB0000641	4.982
Q99497	1PDW	HMDB0000099	4.981
P02787	1DAN	HMDB0000161	4.98
P22301	2ILK	HMDB0000122	4.979
P27986	1H9O	HMDB0000925	4.977
P43354	1OVL	HMDB0000161	4.977
Q9Y243	2X18	HMDB0000161	4.977
P26358	3EPZ	HMDB0000161	4.976
P04271	2H61	HMDB0000161	4.975
P15056	3II5	HMDB0000123	4.975
P68871	1BAB	HMDB0002329	4.973
Q06124	2SHP	HMDB0002329	4.971
Q8NFD5	2EH9	HMDB0000641	4.968
P29475	1F20	HMDB0000099	4.967
P10082	2ZA5	HMDB0000161	4.967
P11274	1K1F	HMDB0000161	4.966
P01920	1UVQ	HMDB0000122	4.964
P51659	1IKT	HMDB0000641	4.962
Q13936	1T0J	HMDB0004610	4.962
P01375	2AZ5	HMDB0000161	4.962
P42336	3HHM	HMDB0000161	4.962
P31749	2UZS	HMDB0000161	4.959
P01303	1R9N	HMDB0000161	4.954
Q5S007	3D6T	HMDB0000161	4.953
P02787	1DAN	HMDB0000123	4.951
P23771	3DFV	HMDB0000641	4.951
P08397	3ECR	HMDB0000190	4.951
P01308	1EVR	HMDB0000123	4.949
P29475	1F20	HMDB0000161	4.949
P49917	3II6	HMDB0001494	4.948
P16278	1BOB	HMDB0000161	4.945
P04062	2NT0	HMDB0000190	4.944
P60484	1D5R	HMDB0000641	4.942
P21397	2Z5Y	HMDB0000097	4.941

P03372	1HCQ	HMDB0000641	4.939
Q9UBK2	1XB7	HMDB0002329	4.939
Q99497	1PDW	HMDB0000641	4.937
P42345	4FAP	HMDB0000925	4.934
Q9Y617	3E77	HMDB0003681	4.933
Q13255	1EWT	HMDB0000190	4.932
P42336	3HHM	HMDB0000123	4.932
P14416	2HLB	HMDB0000190	4.931
P36551	2AEX	HMDB0000097	4.93
P05231	1ALU	HMDB0000161	4.929
P21359	2D4Q	HMDB0000123	4.929
P42858	3IO4	HMDB0034146	4.929
P54098	1A1V	HMDB0000925	4.928
P16435	3FJO	HMDB0000161	4.926
P51659	1IKT	HMDB0000123	4.925
P60484	1D5R	HMDB0000161	4.924
P01579	1EKU	HMDB0002329	4.924
P05067	2FK3	HMDB0000123	4.924
P01241	1AXI	HMDB0034146	4.923
P10912	1AXI	HMDB0034146	4.923
P15289	2AIJ	HMDB0002329	4.921
P01241	1AXI	HMDB0000190	4.92
P10912	1AXI	HMDB0000190	4.92
Q13255	1EWT	HMDB0002329	4.917
P35637	1G5G	HMDB0000123	4.917
P03372	1HCQ	HMDB0000123	4.917
P06850	1MOI	HMDB0000161	4.917
Q02750	3EQC	HMDB0000161	4.916
P51608	3C2I	HMDB0034146	4.914
P01112	1NVU	HMDB0000161	4.912
Q06124	2SHP	HMDB0000883	4.912
P78509	2DDU	HMDB0000123	4.91
P35520	1M54	HMDB0002329	4.909
Q15303	2AHX	HMDB0034146	4.909
P10082	2ZA5	HMDB0001494	4.908
P27338	1OJA	HMDB0000097	4.907
P12821	1UZE	HMDB0002329	4.906
P04049	3CU8	HMDB0000925	4.906
P11362	1CVS	HMDB0002329	4.905
P06280	3HG3	HMDB0000161	4.905
P11362	1CVS	HMDB0000641	4.904
Q14203	2HL5	HMDB0000123	4.902
P10082	2ZA5	HMDB0000925	4.9
P15056	3II5	HMDB0002329	4.899
P04637	1GZH	HMDB0000161	4.896
P54098	1A1V	HMDB0000123	4.895
P05231	1ALU	HMDB0002329	4.894
P01375	2AZ5	HMDB0000641	4.892
P27487	1W1I	HMDB0034146	4.891
P08833	1ZT3	HMDB0000099	4.891
P60568	1PY2	HMDB0002329	4.89
P29475	1F20	HMDB0002329	4.887
P01241	1AXI	HMDB0000161	4.886
P10912	1AXI	HMDB0000161	4.886
P00441	1HL5	HMDB0000641	4.886
P03372	1HCQ	HMDB0000161	4.885
Q06787	2QND	HMDB0002329	4.885
P02787	1DAN	HMDB0001494	4.883
Q16620	1HCF	HMDB0002329	4.882
P01270	3C4M	HMDB0000190	4.882
P54098	1A1V	HMDB0002329	4.881
P31749	2UZS	HMDB0002329	4.878
P01270	3C4M	HMDB0002329	4.878
P01584	2NVH	HMDB0000190	4.876
Q9BYW2	3H6L	HMDB0002329	4.873
P04637	1GZH	HMDB0000641	4.872
Q8NFD5	2EH9	HMDB0000161	4.87
Q14203	2HL5	HMDB0034146	4.866
Q15465	3M1N	HMDB0000161	4.866

P39905	2V5E	HMDB0002329	4.865
P62834	3KUC	HMDB0000161	4.863
P42345	4FAP	HMDB0002329	4.862
P16435	3FJO	HMDB0002329	4.861
P42336	3HHM	HMDB0002329	4.861
Q9UBK2	1XB7	HMDB0000190	4.86
P04049	3CU8	HMDB0002329	4.86
P01584	2NVH	HMDB0002329	4.859
Q8NER1	2NYJ	HMDB0000161	4.856
P16278	1BOB	HMDB0000123	4.855
Q99259	2OKJ	HMDB0000883	4.855
Q06787	2QND	HMDB0000123	4.854
Q30201	1DEA	HMDB0002329	4.853
P08069	3F5P	HMDB0000161	4.853
Q7LG56	3HF1	HMDB0002329	4.853
P01127	3MJG	HMDB0002329	4.853
P04049	3CU8	HMDB0000190	4.85
P62834	3KUC	HMDB0002329	4.849
P60568	1PY2	HMDB0000123	4.845
P01584	2NVH	HMDB0000123	4.844
P11274	1K1F	HMDB0000099	4.842
P27338	1OJA	HMDB0000883	4.842
P27338	1OJA	HMDB0000190	4.841
P43354	1OVL	HMDB0000925	4.841
Q14203	2HL5	HMDB0000190	4.841
P27986	1H9O	HMDB0000161	4.84
P06850	1MO1	HMDB0034146	4.84
O43612	1UV0	HMDB0002329	4.84
P23771	3DFV	HMDB0000161	4.839
P41159	3IIQ	HMDB0000161	4.838
P04637	1GZH	HMDB0000099	4.837
P01116	1N4R	HMDB0000097	4.837
P00450	2J5W	HMDB0002329	4.836
Q9UBP0	3B9P	HMDB0000641	4.836
O00555	3BXX	HMDB0002329	4.835
Q9Y617	3E77	HMDB0000190	4.834
Q30201	1DEA	HMDB0000190	4.834
P49917	3II6	HMDB0000641	4.834
P04271	2H61	HMDB0002329	4.833
P31749	2UZS	HMDB0000190	4.83
P01579	1EKU	HMDB0000190	4.828
P27986	1H9O	HMDB0000099	4.824
P04150	1P93	HMDB0000161	4.824
P04062	2NT0	HMDB0000123	4.824
Q06787	2QND	HMDB0000190	4.823
Q9Y243	2X18	HMDB0000190	4.823
P26358	3EPZ	HMDB0000190	4.822
Q08499	1MKD	HMDB0001494	4.821
P05231	1ALU	HMDB0000190	4.819
Q13936	1T0J	HMDB0000122	4.819
P17612	3MVJ	HMDB0000883	4.819
P01241	1AXI	HMDB0002329	4.818
P10912	1AXI	HMDB0002329	4.818
Q30201	1DEA	HMDB0000883	4.818
P01112	1NVU	HMDB0000123	4.818
O15146	2IEP	HMDB0000161	4.817
P05067	2FK3	HMDB0001494	4.816
P11362	1CVS	HMDB0000190	4.815
O43612	1UV0	HMDB0000123	4.815
O00555	3BXX	HMDB0000190	4.815
P07949	2IVS	HMDB0002329	4.814
Q9NQC3	1OZN	HMDB0000123	4.813
Q9Y2R2	2P6X	HMDB0000641	4.813
P01579	1EKU	HMDB0000641	4.812
P04278	1LHV	HMDB0002329	4.811
P14902	2D0T	HMDB0000190	4.811
P09619	1GQ5	HMDB0000641	4.81
P60484	1D5R	HMDB0000925	4.808
Q16620	1HCF	HMDB0000190	4.806

P27361	3FXW	HMDB0002329	4.805
P55072	1Y8E	HMDB0002329	4.803
P04637	1GZH	HMDB0000123	4.802
P11274	1K1F	HMDB0000641	4.799
P01138	1SG1	HMDB0000925	4.798
P22301	2ILK	HMDB0034146	4.798
P27986	1H9O	HMDB0002329	4.797
P04637	1GZH	HMDB0002329	4.796
Q15067	1W07	HMDB0000883	4.795
P21359	2D4Q	HMDB0003681	4.794
P35637	1G5G	HMDB0002329	4.793
Q99259	2OKJ	HMDB0000097	4.793
P04278	1LHV	HMDB0000883	4.792
Q9Y2R2	2P6X	HMDB0000099	4.79
P39905	2V5E	HMDB0000123	4.789
P09619	1GQ5	HMDB0000099	4.788
P02741	1CGP	HMDB0000883	4.786
P11362	1CVS	HMDB0000123	4.785
P08833	1ZT3	HMDB0000190	4.785
P04150	1P93	HMDB0000123	4.783
P05231	1ALU	HMDB0000641	4.782
Q99497	1PDW	HMDB0002329	4.782
Q13936	1T0J	HMDB0034146	4.782
P08833	1ZT3	HMDB0000123	4.782
P06280	3HG3	HMDB0000190	4.781
P60484	1D5R	HMDB0000190	4.78
Q8NER1	2NYJ	HMDB0000641	4.78
P68871	1BAB	HMDB0000190	4.779
P01112	1NVU	HMDB0000925	4.774
O00555	3BXK	HMDB0000123	4.774
P01920	1UVQ	HMDB0034146	4.773
Q02750	3EQC	HMDB0001494	4.771
P21333	2WFN	HMDB0000641	4.77
P54098	1A1V	HMDB0000190	4.769
P27986	1H9O	HMDB0000641	4.769
P21802	1DJS	HMDB0000190	4.766
Q13255	1EWT	HMDB0034146	4.766
Q5S007	3D6T	HMDB0002329	4.766
P08397	3ECR	HMDB0003681	4.766
P10082	2ZA5	HMDB0002329	4.765
P29475	1F20	HMDB0000190	4.763
P35637	1G5G	HMDB0000190	4.761
P01127	3MJG	HMDB0000123	4.761
P16278	1BOB	HMDB0000190	4.759
Q9UBK2	1XB7	HMDB0000641	4.753
P15289	2AIJ	HMDB0034146	4.753
Q8NER1	2NYJ	HMDB0000190	4.753
P02741	1CGP	HMDB0002329	4.752
P01911	2WBJ	HMDB0000161	4.751
P06850	1MO1	HMDB0000123	4.75
Q9Y2R2	2P6X	HMDB0000161	4.75
Q9Y617	3E77	HMDB0002329	4.749
P51659	1IKT	HMDB0000190	4.749
P01579	1EKU	HMDB0000123	4.748
P08069	3F5P	HMDB0000123	4.748
P28329	2FY3	HMDB0000097	4.746
P09619	1GQ5	HMDB0000123	4.744
P21333	2WFN	HMDB0000161	4.744
P43354	1OVL	HMDB0000123	4.742
P42336	3HHM	HMDB0000925	4.741
Q8NFD5	2EH9	HMDB0000190	4.74
Q14203	2HL5	HMDB0002329	4.739
Q9Y617	3E77	HMDB0000097	4.738
P01112	1NVU	HMDB0000190	4.732
Q9UBP0	3B9P	HMDB0000161	4.732
P14902	2D0T	HMDB0003681	4.73
Q02750	3EQC	HMDB0003681	4.73
P16435	3FJO	HMDB0000925	4.729
P02741	1CGP	HMDB0000097	4.726

P27487	1W1I	HMDB0000190	4.726
P10082	2ZA5	HMDB0000190	4.725
P51608	3C2I	HMDB0002329	4.725
P42858	3IO4	HMDB0002329	4.725
P06850	1MO1	HMDB0002329	4.723
P36551	2AEX	HMDB0002329	4.723
P51659	1IKT	HMDB0003681	4.722
P41159	3IIQ	HMDB0002329	4.722
P78509	2DDU	HMDB0002329	4.721
P00441	1HL5	HMDB0002329	4.719
P27986	1H9O	HMDB0000123	4.715
P06850	1MO1	HMDB0000190	4.713
O15146	2IEP	HMDB0000123	4.712
P04271	2H61	HMDB0000123	4.709
P08069	3F5P	HMDB0002329	4.704
P01303	1R9N	HMDB0000123	4.703
P16435	3FJO	HMDB0000123	4.703
P42345	4FAP	HMDB0000123	4.698
P00450	2J5W	HMDB0000099	4.697
P00450	2J5W	HMDB0000641	4.696
P01375	2AZ5	HMDB0000123	4.692
P01138	1SG1	HMDB0000161	4.685
P68871	1BAB	HMDB0003681	4.683
P01116	1N4R	HMDB0000883	4.683
P55072	1Y8E	HMDB0034146	4.682
P08833	1ZT3	HMDB0000641	4.682
P28482	1PME	HMDB0003681	4.679
P42858	3IO4	HMDB0000190	4.678
Q15465	3M1N	HMDB0000123	4.675
Q16620	1HCF	HMDB0000123	4.674
P78509	2DDU	HMDB0000190	4.672
Q9NQC3	1OZN	HMDB0000190	4.671
P04271	2H61	HMDB0003681	4.67
P21333	2WFN	HMDB0000190	4.67
Q9Y243	2X18	HMDB0000123	4.668
Q08499	1MKD	HMDB0000097	4.667
P04278	1LHV	HMDB0000097	4.665
P49917	3II6	HMDB0000161	4.664
P05231	1ALU	HMDB0000099	4.661
P02768	1E7A	HMDB0000097	4.661
P04278	1LHV	HMDB0000190	4.66
P01138	1SG1	HMDB0000097	4.659
Q08499	1MKD	HMDB0000883	4.655
P62834	3KUC	HMDB0000123	4.655
P00441	1HL5	HMDB0000925	4.65
P01911	2WBJ	HMDB0000123	4.65
P28329	2FY3	HMDB0000883	4.648
Q5S007	3D6T	HMDB0000123	4.645
P31749	2UZS	HMDB0000641	4.64
P04278	1LHV	HMDB0000094	4.636
P21359	2D4Q	HMDB0000094	4.636
Q9Y2R2	2P6X	HMDB0000190	4.636
Q9Y2R2	2P6X	HMDB0002329	4.634
P16220	1DH3	HMDB0000123	4.633
P39905	2V5E	HMDB0000099	4.633
P60484	1D5R	HMDB0000123	4.63
P01116	1N4R	HMDB0000094	4.629
P04150	1P93	HMDB0000094	4.627
P36551	2AEX	HMDB0060348	4.625
P05231	1ALU	HMDB0000123	4.623
P39905	2V5E	HMDB0000641	4.62
P41159	3IIQ	HMDB0000123	4.618
P26358	3EPZ	HMDB0000123	4.615
P29475	1F20	HMDB0000123	4.611
Q9UBP0	3B9P	HMDB0000190	4.61
P21397	2Z5Y	HMDB0002329	4.608
P01584	2NVH	HMDB0000099	4.605
P02768	1E7A	HMDB0000094	4.604
Q8NER1	2NYJ	HMDB0000123	4.602

P04150	1P93	HMDB0060348	4.599
P35520	1M54	HMDB0003681	4.598
P04278	1LHV	HMDB0060348	4.595
P41159	3IIQ	HMDB0000641	4.595
Q06124	2SHP	HMDB0000097	4.594
Q03431	3L2J	HMDB0060348	4.593
Q15067	1W07	HMDB0000097	4.592
P27986	1H9O	HMDB0000190	4.585
P30793	1N3T	HMDB0000097	4.585
P01138	1SG1	HMDB0000883	4.582
Q9BYW2	3H6L	HMDB0000094	4.578
P00441	1HL5	HMDB0000190	4.577
Q9Y617	3E77	HMDB0000883	4.573
P06280	3HG3	HMDB0000123	4.571
P02768	1E7A	HMDB0000883	4.57
P27338	1OJA	HMDB0000161	4.57
Q15465	3M1N	HMDB0000641	4.57
P11274	1K1F	HMDB0000123	4.568
P10145	1QE6	HMDB0000641	4.565
P27361	3FXW	HMDB0000883	4.565
P21802	1DJS	HMDB0000883	4.564
P21964	3HVH	HMDB0000883	4.559
P01270	3C4M	HMDB0060348	4.554
Q9BYW2	3H6L	HMDB0000190	4.55
P01911	2WBJ	HMDB0000641	4.546
Q30201	1DEA	HMDB0060348	4.545
P14416	2HLB	HMDB0000097	4.542
Q30201	1DEA	HMDB0000097	4.535
P28329	2FY3	HMDB0060348	4.535
Q08499	1MKD	HMDB0060348	4.534
P21359	2D4Q	HMDB0060348	4.531
P23771	3DFV	HMDB0000123	4.53
P42336	3HHM	HMDB0003681	4.527
Q8NFD5	2EH9	HMDB0000123	4.525
P21397	2Z5Y	HMDB0060348	4.524
Q30201	1DEA	HMDB0000094	4.523
P42336	3HHM	HMDB0000094	4.518
P08397	3ECR	HMDB0000097	4.516
P04062	2NT0	HMDB0000099	4.512
P01303	1R9N	HMDB0000641	4.511
Q99259	2OKJ	HMDB0060348	4.508
P01308	1EVR	HMDB0000094	4.507
O15146	2IEP	HMDB0000641	4.506
P21802	1DJS	HMDB0060348	4.5
Q03431	3L2J	HMDB0000883	4.499
P02768	1E7A	HMDB0060348	4.491
P08397	3ECR	HMDB0000883	4.491
P14416	2HLB	HMDB0000883	4.489
Q06124	2SHP	HMDB0060348	4.489
P27361	3FXW	HMDB0000094	4.488
P27338	1OJA	HMDB0060348	4.487
Q15067	1W07	HMDB0060348	4.481
P68871	1BAB	HMDB0060348	4.48
P30793	1N3T	HMDB0000883	4.479
P49917	3II6	HMDB0000190	4.479
P02787	1DAN	HMDB0003681	4.478
P01308	1EVR	HMDB0060348	4.477
P28482	1PME	HMDB0060348	4.477
O43612	1UV0	HMDB0000099	4.477
P15056	3II5	HMDB0003681	4.474
P21333	2WFN	HMDB0000123	4.473
P01308	1EVR	HMDB0001494	4.467
P01308	1EVR	HMDB0000883	4.462
P10145	1QE6	HMDB0000099	4.462
P28482	1PME	HMDB0000094	4.457
Q9Y617	3E77	HMDB0060348	4.455
P36551	2AEX	HMDB0000094	4.454
Q08499	1MKD	HMDB0000094	4.453
P04150	1P93	HMDB0000883	4.452

P10082	2ZA5	HMDB0003681	4.451
P01270	3C4M	HMDB0000097	4.451
P21964	3HVH	HMDB0000094	4.447
P04637	1GZH	HMDB0000190	4.446
P27361	3FXW	HMDB0060348	4.446
P27361	3FXW	HMDB0000097	4.445
P42336	3HHM	HMDB0000190	4.444
P01138	1SG1	HMDB0000123	4.442
Q08499	1MKD	HMDB0000190	4.439
P01270	3C4M	HMDB0000094	4.433
Q15465	3M1N	HMDB0000099	4.431
Q5S007	3D6T	HMDB0000099	4.43
P21802	1DJS	HMDB0000094	4.428
P30793	1N3T	HMDB0060348	4.426
P21964	3HVH	HMDB0060348	4.425
P51659	1IKT	HMDB0000094	4.421
O43612	1UV0	HMDB0000641	4.421
Q15303	2AHX	HMDB0000641	4.421
P14902	2D0T	HMDB0000094	4.421
Q7LG56	3HF1	HMDB0000641	4.419
P15056	3II5	HMDB0000094	4.415
P01138	1SG1	HMDB0060348	4.411
P12821	1UZE	HMDB0000097	4.409
P04271	2H61	HMDB0000094	4.409
P01589	3IU3	HMDB0000099	4.407
P05067	2FK3	HMDB0000094	4.405
Q02750	3EQC	HMDB0000094	4.4
Q03431	3L2J	HMDB0000097	4.395
P68871	1BAB	HMDB0000094	4.386
Q06124	2SHP	HMDB0000094	4.384
P07949	2IVS	HMDB0060348	4.383
Q03431	3L2J	HMDB0000094	4.382
P28329	2FY3	HMDB0001494	4.38
P17612	3MVJ	HMDB0000094	4.377
P01308	1EVR	HMDB0000097	4.371
Q9Y2R2	2P6X	HMDB0000123	4.364
P08069	3F5P	HMDB0000094	4.362
Q9UBP0	3B9P	HMDB0000123	4.357
P01270	3C4M	HMDB0000883	4.357
P04150	1P93	HMDB0000097	4.356
P01112	1NVU	HMDB0003681	4.355
P35637	1G5G	HMDB0000099	4.354
P01138	1SG1	HMDB0000094	4.35
P68871	1BAB	HMDB0000883	4.345
P04150	1P93	HMDB0001494	4.344
P08397	3ECR	HMDB0060348	4.344
P08069	3F5P	HMDB0000190	4.342
P60568	1PY2	HMDB0000099	4.336
P28329	2FY3	HMDB0000094	4.332
P03372	1HCQ	HMDB0003681	4.331
P03372	1HCQ	HMDB0000190	4.327
P05067	2FK3	HMDB0000883	4.325
P03372	1HCQ	HMDB0000094	4.32
P05019	1H02	HMDB0000641	4.317
Q99700	3KTR	HMDB0000641	4.317
P12821	1UZE	HMDB0000883	4.314
P54098	1A1V	HMDB0003681	4.31
P23771	3DFV	HMDB0000094	4.308
P02787	1DAN	HMDB0000883	4.303
P42345	4FAP	HMDB0060348	4.302
P27487	1W1I	HMDB0000099	4.296
Q8NFD5	2EH9	HMDB0003681	4.295
Q9NQC3	1OZN	HMDB0000099	4.292
P08397	3ECR	HMDB0000094	4.292
Q02750	3EQC	HMDB0060348	4.292
P07949	2IVS	HMDB0000094	4.287
O00555	3BXK	HMDB0000641	4.282
P14902	2D0T	HMDB0000883	4.281
P23771	3DFV	HMDB0003681	4.28

P16220	1DH3	HMDB0000641	4.278
P06850	1MO1	HMDB0000099	4.274
P04049	3CU8	HMDB0000094	4.273
P54098	1A1V	HMDB0000094	4.271
P02787	1DAN	HMDB0000094	4.271
P04150	1P93	HMDB0002329	4.27
P04049	3CU8	HMDB0003681	4.268
P14416	2HLB	HMDB0000094	4.262
Q15067	1W07	HMDB0000094	4.261
P01241	1AXI	HMDB0000099	4.26
P10912	1AXI	HMDB0000099	4.26
P01308	1EVR	HMDB0000190	4.26
P07949	2IVS	HMDB0000883	4.258
P08069	3F5P	HMDB0060348	4.258
P51608	3C2I	HMDB0000099	4.254
P30793	1N3T	HMDB0000094	4.253
P10082	2ZA5	HMDB0000094	4.253
P29475	1F20	HMDB0000094	4.252
P03372	1HCQ	HMDB0002329	4.251
Q14203	2HL5	HMDB0000099	4.249
P43354	1OVL	HMDB0000094	4.248
P35637	1G5G	HMDB0000641	4.247
P42345	4FAP	HMDB0000094	4.247
P10145	1QE6	HMDB0000094	4.246
P03372	1HCQ	HMDB0060348	4.245
P78504	2VJ2	HMDB0000099	4.24
P16278	1BOB	HMDB0000094	4.237
P01579	1EKU	HMDB0000094	4.237
P05067	2FK3	HMDB0060348	4.234
P05019	1H02	HMDB0000094	4.228
P10082	2ZA5	HMDB0060348	4.225
P16435	3FJO	HMDB0000094	4.222
P39905	2V5E	HMDB0000094	4.219
P60568	1PY2	HMDB0000094	4.218
Q13255	1EWT	HMDB0000099	4.217
P16278	1BOB	HMDB0003681	4.216
P60484	1D5R	HMDB0000094	4.214
P02787	1DAN	HMDB0060348	4.213
Q9BYW2	3H6L	HMDB0000883	4.213
P27986	1H9O	HMDB0000094	4.211
P35520	1M54	HMDB0060348	4.21
Q99497	1PDW	HMDB0000094	4.209
P21802	1DJS	HMDB0000097	4.206
P12821	1UZE	HMDB0000094	4.206
O15146	2IEP	HMDB0000094	4.205
P28482	1PME	HMDB0000883	4.204
P01375	2AZ5	HMDB0000094	4.204
Q02750	3EQC	HMDB0000883	4.2
Q9NQ3	1OZN	HMDB0000641	4.197
P16220	1DH3	HMDB0000094	4.196
P21359	2D4Q	HMDB0000883	4.196
Q99700	3KTR	HMDB0000094	4.195
P27487	1W1I	HMDB0000641	4.194
Q9Y617	3E77	HMDB0000094	4.19
P35520	1M54	HMDB0000094	4.189
P14902	2D0T	HMDB0000097	4.188
P11274	1K1F	HMDB0003681	4.187
P35520	1M54	HMDB0000883	4.187
O43612	1UV0	HMDB0000094	4.187
P20783	1BND	HMDB0000641	4.186
P23560	1BND	HMDB0000641	4.186
P00441	1HL5	HMDB0003681	4.186
P01112	1NVU	HMDB0000094	4.186
P43354	1OVL	HMDB0060348	4.181
P04062	2NT0	HMDB0000094	4.181
P60568	1PY2	HMDB0000641	4.18
P01127	3MJG	HMDB0000094	4.18
Q13255	1EWT	HMDB0000094	4.179
P01584	2NVH	HMDB0000094	4.179

P20783	1BND	HMDB0000094	4.178
P23560	1BND	HMDB0000094	4.178
O00555	3BXK	HMDB0000094	4.178
P01589	3IU3	HMDB0000094	4.176
Q9UBK2	1XB7	HMDB0000094	4.175
P01589	3IU3	HMDB0000641	4.175
P78504	2VJ2	HMDB0000094	4.174
P51659	1IKT	HMDB0000883	4.173
Q14203	2HL5	HMDB0000094	4.171
Q9Y243	2X18	HMDB0000094	4.171
P15289	2AIJ	HMDB0000094	4.17
P01911	2WBJ	HMDB0000094	4.17
P62834	3KUC	HMDB0000094	4.169
Q15303	2AHX	HMDB0000094	4.167
P51608	3C2I	HMDB0000094	4.167
P04049	3CU8	HMDB0060348	4.166
P08069	3F5P	HMDB0000883	4.166
P27487	1W1I	HMDB0000094	4.165
P01920	1UVQ	HMDB0000099	4.164
P04637	1GZH	HMDB0000094	4.162
P54098	1A1V	HMDB0060348	4.161
P01138	1SG1	HMDB0000190	4.161
P05231	1ALU	HMDB0000094	4.158
P42858	3IO4	HMDB0000094	4.158
P01241	1AXI	HMDB0000094	4.157
P10912	1AXI	HMDB0000094	4.157
Q5S007	3D6T	HMDB0000641	4.156
P09619	1GQ5	HMDB0000094	4.155
Q8NFD5	2EH9	HMDB0000094	4.155
P27986	1H9O	HMDB0003681	4.154
P55072	1Y8E	HMDB0000094	4.151
Q9NQC3	1OZN	HMDB0000094	4.15
Q15465	3M1N	HMDB0000094	4.15
P04271	2H61	HMDB0000883	4.147
P23771	3DFV	HMDB0060348	4.147
P49917	3II6	HMDB0000094	4.147
Q9NQC3	1OZN	HMDB0003681	4.146
P60568	1PY2	HMDB0060348	4.145
P02741	1CGP	HMDB0000094	4.144
P00441	1HL5	HMDB0000094	4.142
P06850	1MO1	HMDB0000094	4.142
Q7LG56	3HF1	HMDB0000094	4.141
P11362	1CVS	HMDB0060348	4.14
Q5S007	3D6T	HMDB0003681	4.14
P16278	1BOB	HMDB0060348	4.138
P04062	2NT0	HMDB0060348	4.137
P11362	1CVS	HMDB0000094	4.136
P01920	1UVQ	HMDB0000094	4.135
P29475	1F20	HMDB0060348	4.134
Q99700	3KTR	HMDB0060348	4.134
Q9BYW2	3H6L	HMDB0000097	4.133
P42858	3IO4	HMDB0000641	4.133
O15146	2IEP	HMDB0060348	4.131
Q5S007	3D6T	HMDB0000094	4.131
P21964	3HVH	HMDB0000097	4.13
P01584	2NVH	HMDB0060348	4.129
P01127	3MJG	HMDB0060348	4.128
P00450	2J5W	HMDB0000094	4.124
P35637	1G5G	HMDB0003681	4.122
P05019	1H02	HMDB0060348	4.121
P20783	1BND	HMDB0060348	4.12
P23560	1BND	HMDB0060348	4.12
P06850	1MO1	HMDB0060348	4.118
P31749	2UZS	HMDB0000094	4.117
P05231	1ALU	HMDB0060348	4.116
P60484	1D5R	HMDB0003681	4.116
Q9UBP0	3B9P	HMDB0003681	4.114
Q7LG56	3HF1	HMDB0060348	4.113
O43612	1UV0	HMDB0060348	4.112

P01303	1R9N	HMDB0003681	4.111
P78509	2DDU	HMDB0000641	4.11
P35637	1G5G	HMDB0060348	4.109
Q15303	2AHX	HMDB0003681	4.109
O00555	3BXX	HMDB0060348	4.108
Q99497	1PDW	HMDB0060348	4.106
P01589	3IU3	HMDB0060348	4.105
P01241	1AXI	HMDB0000641	4.104
P10912	1AXI	HMDB0000641	4.104
Q16620	1HCF	HMDB0003681	4.104
P51608	3C2I	HMDB0060348	4.102
P42858	3IO4	HMDB0060348	4.102
Q16620	1HCF	HMDB0000094	4.101
Q14203	2HL5	HMDB0000641	4.1
P06850	1MO1	HMDB0003681	4.099
Q13255	1EWT	HMDB0060348	4.098
P78504	2VJ2	HMDB0060348	4.098
P31749	2UZS	HMDB0060348	4.097
P05231	1ALU	HMDB0003681	4.096
P01584	2NVH	HMDB0003681	4.096
P51608	3C2I	HMDB0000641	4.096
P60484	1D5R	HMDB0060348	4.095
P10145	1QE6	HMDB0060348	4.094
P06850	1MO1	HMDB0000641	4.093
P35637	1G5G	HMDB0000094	4.091
P68871	1BAB	HMDB0000097	4.089
P01303	1R9N	HMDB0000094	4.086
O43612	1UV0	HMDB0003681	4.086
P31749	2UZS	HMDB0003681	4.086
Q9UBK2	1XB7	HMDB0060348	4.084
Q06787	2QND	HMDB0000094	4.084
Q8NER1	2NYJ	HMDB0000094	4.083
Q5S007	3D6T	HMDB0060348	4.083
P16220	1DH3	HMDB0060348	4.082
P08833	1ZT3	HMDB0003681	4.082
P09619	1GQ5	HMDB0060348	4.081
P03372	1HCO	HMDB0000883	4.081
P10082	2ZA5	HMDB0000097	4.081
Q14203	2HL5	HMDB0060348	4.079
P26358	3EPZ	HMDB0000094	4.074
P41159	3IIQ	HMDB0000094	4.074
P78509	2DDU	HMDB0000094	4.073
Q9NQC3	1OZN	HMDB0060348	4.071
P01127	3MJG	HMDB0000641	4.07
Q9Y243	2X18	HMDB0003681	4.068
Q13936	1T0J	HMDB0000094	4.067
P22301	2ILK	HMDB0000094	4.067
P08833	1ZT3	HMDB0000094	4.066
Q8NFD5	2EH9	HMDB0060348	4.066
P01911	2WBJ	HMDB0060348	4.066
P51608	3C2I	HMDB0003681	4.065
P01911	2WBJ	HMDB0003681	4.064
Q15465	3M1N	HMDB0060348	4.063
Q16620	1HCF	HMDB0060348	4.062
Q14203	2HL5	HMDB0003681	4.061
P28329	2FY3	HMDB0002329	4.06
P00450	2J5W	HMDB0060348	4.058
P41159	3IIQ	HMDB0060348	4.058
P21397	2Z5Y	HMDB0000094	4.056
P10082	2ZA5	HMDB0000883	4.056
P49917	3II6	HMDB0060348	4.055
P04062	2NT0	HMDB0003681	4.054
P21333	2WFN	HMDB0003681	4.053
Q9Y2R2	2P6X	HMDB0000094	4.052
P60568	1PY2	HMDB0003681	4.052
P01241	1AXI	HMDB0003681	4.05
P10912	1AXI	HMDB0003681	4.05
P78509	2DDU	HMDB0060348	4.05
P06280	3HG3	HMDB0000094	4.05

P16220	1DH3	HMDB0003681	4.048
P01579	1EKU	HMDB0003681	4.047
P05019	1H02	HMDB0003681	4.044
P01303	1R9N	HMDB0060348	4.04
P20783	1BND	HMDB0003681	4.035
P23560	1BND	HMDB0003681	4.035
P01579	1EKU	HMDB0060348	4.035
Q13255	1EWT	HMDB0000641	4.034
O15146	2IEP	HMDB0003681	4.032
Q9UBP0	3B9P	HMDB0000094	4.032
Q13255	1EWT	HMDB0003681	4.03
P11274	1K1F	HMDB0000094	4.03
P00441	1HL5	HMDB0060348	4.029
P28482	1PME	HMDB0000097	4.027
Q9UBP0	3B9P	HMDB0060348	4.025
P03372	1HCQ	HMDB0000097	4.022
P01920	1UVQ	HMDB0003681	4.02
P21333	2WFN	HMDB0000094	4.02
P27338	1OJA	HMDB0000094	4.019
Q9Y243	2X18	HMDB0060348	4.018
P15289	2AIJ	HMDB0000641	4.013
Q06787	2QND	HMDB0003681	4.011
P21359	2D4Q	HMDB0000097	4.01
P08833	1ZT3	HMDB0060348	4.008
P01375	2AZ5	HMDB0000883	3.999
Q8NER1	2NYJ	HMDB0060348	3.998
P04049	3CU8	HMDB0000883	3.997
P22301	2ILK	HMDB0060348	3.991
P15056	3II5	HMDB0000883	3.99
P42336	3HHM	HMDB0000883	3.978
P04271	2H61	HMDB0000097	3.966
Q9Y2R2	2P6X	HMDB0060348	3.966
P01920	1UVQ	HMDB0000641	3.935
Q99259	2OKJ	HMDB0000094	3.93
Q02750	3EQC	HMDB0000097	3.929
P01138	1SG1	HMDB0000159	3.927
P55072	1Y8E	HMDB0000641	3.923
P02787	1DAN	HMDB0000097	3.919
P55072	1Y8E	HMDB0003681	3.915
P35520	1M54	HMDB0000097	3.9
P16278	1BOB	HMDB0000883	3.892
P42345	4FAP	HMDB0000883	3.887
P22301	2ILK	HMDB0003681	3.884
P42336	3HHM	HMDB0000097	3.868
P51659	1IKT	HMDB0000097	3.861
P01303	1SG1	HMDB0001494	3.857
P00441	1HL5	HMDB0000883	3.846
Q99497	1PDW	HMDB0000097	3.838
P22301	2ILK	HMDB0000641	3.837
Q8NFD5	2EH9	HMDB0000883	3.819
P23771	3DFV	HMDB0000883	3.819
P62834	3KUC	HMDB0000883	3.804
P00441	1HL5	HMDB0000097	3.797
P49917	3II6	HMDB0000883	3.788
P43354	1OVL	HMDB0000883	3.744
P42345	4FAP	HMDB0000097	3.741
P01375	2AZ5	HMDB0000097	3.737
P01112	1NVU	HMDB0000097	3.736
P16435	3FJO	HMDB0000883	3.73
P54098	1A1V	HMDB0000097	3.728
P23771	3DFV	HMDB0000097	3.718
P01112	1NVU	HMDB0000883	3.712
P27986	1H9O	HMDB0000883	3.709
O15146	2IEP	HMDB0000883	3.701
P54098	1A1V	HMDB0000883	3.7
Q13936	1T0J	HMDB0000641	3.678
P04049	3CU8	HMDB0000097	3.675
P15056	3II5	HMDB0000097	3.675
Q16620	1HCF	HMDB0000883	3.671

P04062	2NT0	HMDB0000883	3.669
P07949	2IVS	HMDB0000097	3.666
P04637	1GZH	HMDB0000883	3.662
Q9UBP0	3B9P	HMDB0000883	3.65
P11362	1CVS	HMDB0000883	3.64
P60568	1PY2	HMDB0000883	3.637
P16278	1BOB	HMDB0000097	3.633
P27986	1H9O	HMDB0000097	3.624
P21333	2WFN	HMDB0000883	3.617
Q99497	1PDW	HMDB0000883	3.615
Q7LG56	3HF1	HMDB0000883	3.615
P31749	2UZS	HMDB0000883	3.614
P60484	1D5R	HMDB0000883	3.613
Q8NER1	2NYJ	HMDB0000883	3.608
P29475	1F20	HMDB0000883	3.605
P27487	1W1I	HMDB0000883	3.603
O15146	2IEP	HMDB0000097	3.597
P42858	3IO4	HMDB0000883	3.597
P01584	2NVH	HMDB0000883	3.593
Q99700	3KTR	HMDB0000883	3.588
P62834	3KUC	HMDB0000097	3.584
P01303	1R9N	HMDB0000883	3.583
P39905	2V5E	HMDB0000883	3.583
P51608	3C2I	HMDB0000883	3.583
P10145	1QE6	HMDB0000883	3.582
P11274	1K1F	HMDB0000097	3.581
Q06787	2QND	HMDB0000883	3.579
P26358	3EPZ	HMDB0000883	3.573
Q9Y243	2X18	HMDB0000883	3.572
P01127	3MJG	HMDB0000883	3.572
P35637	1G5G	HMDB0000883	3.571
Q15465	3M1N	HMDB0000883	3.571
P06280	3HG3	HMDB0000883	3.57
P16220	1DH3	HMDB0000883	3.568
P06850	1MO1	HMDB0000883	3.566
P41159	3IIQ	HMDB0000883	3.566
P01241	1AXI	HMDB0000883	3.56
P10912	1AXI	HMDB0000883	3.56
P01911	2WBJ	HMDB0000883	3.557
P05231	1ALU	HMDB0000883	3.555
Q5S007	3D6T	HMDB0000883	3.555
P09619	1GQ5	HMDB0000883	3.549
P01579	1EKU	HMDB0000883	3.547
P05019	1H02	HMDB0000883	3.547
P43354	1OVL	HMDB0000097	3.547
Q9Y2R2	2P6X	HMDB0000883	3.547
Q9NQC3	1OZN	HMDB0000883	3.543
P00450	2J5W	HMDB0000883	3.542
P11274	1K1F	HMDB0000883	3.54
P08833	1ZT3	HMDB0000883	3.537
P49917	3II6	HMDB0000097	3.533
P04062	2NT0	HMDB0000097	3.531
Q15303	2AHX	HMDB0000883	3.521
P20783	1BND	HMDB0000883	3.518
P23560	1BND	HMDB0000883	3.518
O00555	3BXK	HMDB0000883	3.516
Q14203	2HL5	HMDB0000883	3.511
P11362	1CVS	HMDB0000097	3.505
P78509	2DDU	HMDB0000883	3.502
Q9UBK2	1XB7	HMDB0000883	3.5
P16435	3FJO	HMDB0000097	3.487
P01589	3IU3	HMDB0000883	3.481
Q9UBP0	3B9P	HMDB0000097	3.48
P01589	3IU3	HMDB0000097	3.476
O43612	1UV0	HMDB0000883	3.47
P01584	2NVH	HMDB0000097	3.469
P15289	2AIJ	HMDB0000883	3.462
Q13255	1EWT	HMDB0000883	3.461
Q16620	1HCF	HMDB0000097	3.461

P10145	1QE6	HMDB0000097	3.457
P01920	1UVQ	HMDB0000883	3.449
P21333	2WFN	HMDB0000097	3.444
P01303	1R9N	HMDB0000097	3.44
P35637	1G5G	HMDB0000097	3.437
P04150	1P93	HMDB0000159	3.434
P04637	1GZH	HMDB0000097	3.433
Q9Y243	2X18	HMDB0000097	3.429
P60568	1PY2	HMDB0000097	3.425
P29475	1F20	HMDB0000097	3.424
Q7LG56	3HF1	HMDB0000097	3.422
P60484	1D5R	HMDB0000097	3.416
P06280	3HG3	HMDB0000097	3.404
P01579	1EKU	HMDB0000097	3.403
P00450	2J5W	HMDB0000097	3.403
P03372	1HCQ	HMDB0000159	3.399
P39905	2V5E	HMDB0000097	3.399
P08833	1ZT3	HMDB0000097	3.397
Q99700	3KTR	HMDB0000097	3.397
P05019	1H02	HMDB0000097	3.396
P42858	3IO4	HMDB0000097	3.394
P78504	2VJ2	HMDB0000883	3.389
O00555	3BXK	HMDB0000097	3.386
P41159	3IIQ	HMDB0000097	3.386
Q15303	2AHX	HMDB0000097	3.385
P22301	2ILK	HMDB0000097	3.385
P06850	1MO1	HMDB0000097	3.384
P51608	3C2I	HMDB0000097	3.384
P01241	1AXI	HMDB0000097	3.382
P10912	1AXI	HMDB0000097	3.382
Q13255	1EWT	HMDB0000097	3.382
P20783	1BND	HMDB0000097	3.38
P23560	1BND	HMDB0000097	3.38
P01920	1UVQ	HMDB0000097	3.38
Q06787	2QND	HMDB0000097	3.38
Q13936	1T0J	HMDB0000097	3.379
P15289	2AIJ	HMDB0000097	3.376
P55072	1Y8E	HMDB0000883	3.374
Q5S007	3D6T	HMDB0000097	3.374
P16220	1DH3	HMDB0000097	3.373
P78509	2DDU	HMDB0000097	3.373
Q14203	2HL5	HMDB0000097	3.372
P27487	1W1I	HMDB0000097	3.367
Q15465	3M1N	HMDB0000097	3.367
Q8NFD5	2EH9	HMDB0000097	3.365
Q9Y2R2	2P6X	HMDB0000097	3.352
P26358	3EPZ	HMDB0000097	3.352
P09619	1GQ5	HMDB0000097	3.35
Q9UBK2	1XB7	HMDB0000097	3.348
Q9NQC3	1OZN	HMDB0000097	3.346
Q13936	1T0J	HMDB0000883	3.344
P22301	2ILK	HMDB0000883	3.341
P05231	1ALU	HMDB0000097	3.325
O43612	1UV0	HMDB0000097	3.323
P55072	1Y8E	HMDB0000097	3.305
P78504	2VJ2	HMDB0000097	3.299
P01116	1N4R	HMDB0000159	3.291
P28329	2FY3	HMDB0000159	3.243
Q08499	1MKD	HMDB0000159	3.212
P02768	1E7A	HMDB0000159	3.183
P27338	1OJA	HMDB0010384	3.183
P36551	2AEX	HMDB0000159	3.175
P17612	3MVJ	HMDB0000159	3.145
P01308	1EVR	HMDB0000159	3.128
P05067	2FK3	HMDB0000097	3.0963
P10082	2ZA5	HMDB0000159	3.086
Q02750	3EQC	HMDB0000159	3.085
Q9BYW2	3H6L	HMDB0000159	3.081
P04278	1LHV	HMDB0000159	3.077

P02787	1DAN	HMDB0000159	3.065
P08069	3F5P	HMDB0000159	3.06
P04271	2H61	HMDB0000159	3.036
P05067	2FK3	HMDB0000159	3.034
P01270	3C4M	HMDB0000159	3.031
Q99259	2OKJ	HMDB0000159	3.028
Q03431	3L2J	HMDB0000159	3.023
P21964	3HVH	HMDB0000159	3.017
P02741	1CGP	HMDB0000159	3.008
Q30201	1DEA	HMDB0000159	2.996
Q9Y617	3E77	HMDB0000159	2.981
Q15067	1W07	HMDB0000159	2.959
P28482	1PME	HMDB0000159	2.957
Q06124	2SHP	HMDB0000159	2.955
P21802	1DJS	HMDB0000159	2.946
P14902	2D0T	HMDB0000159	2.93
P68871	1BAB	HMDB0000159	2.927
P27361	3FXW	HMDB0000159	2.903
P51659	1IKT	HMDB0000159	2.898
P42336	3HHM	HMDB0000159	2.87
P21359	2D4Q	HMDB0000159	2.865
P35520	1M54	HMDB0000159	2.863
P12821	1UZE	HMDB0000159	2.859
P14416	2HLB	HMDB0000159	2.859
P07949	2IVS	HMDB0000159	2.855
P08397	3ECR	HMDB0000159	2.847
P15056	3II5	HMDB0000159	2.841
P30793	1N3T	HMDB0000159	2.825
P04049	3CU8	HMDB0000159	2.801
Q99497	1PDW	HMDB0000159	2.797
P01375	2AZ5	HMDB0000159	2.775
P54098	1AIV	HMDB0000159	2.771
P62834	3KUC	HMDB0000159	2.767
P43354	1OVL	HMDB0000159	2.755
P01112	1NVU	HMDB0000159	2.728
P29475	1F20	HMDB0000159	2.71
P60484	1D5R	HMDB0000159	2.701
P42345	4FAP	HMDB0000159	2.689
Q9Y243	2X18	HMDB0000159	2.671
P23771	3DFV	HMDB0000159	2.669
P06280	3HG3	HMDB0000159	2.636
P16435	3FJO	HMDB0000159	2.61
P16278	1BOB	HMDB0000159	2.608
P49917	3II6	HMDB0000159	2.568
Q8NFD5	2EH9	HMDB0000159	2.522
Q16620	1HCF	HMDB0000159	2.513
P00450	2J5W	HMDB0000159	2.491
P11362	1CVS	HMDB0000159	2.469
P21333	2WFN	HMDB0000159	2.425
Q9UBP0	3B9P	HMDB0000159	2.415
P00441	1HL5	HMDB0000159	2.396
P01127	3MJG	HMDB0000159	2.395
P55072	1Y8E	HMDB0000159	2.384
O43612	1UV0	HMDB0000159	2.379
Q15303	2AHX	HMDB0000159	2.375
Q9Y2R2	2P6X	HMDB0000159	2.374
P22301	2ILK	HMDB0000159	2.37
Q9UBK2	1XB7	HMDB0000159	2.368
P20783	1BND	HMDB0000159	2.367
P23560	1BND	HMDB0000159	2.367
Q13255	1EWT	HMDB0000159	2.366
P01589	3IU3	HMDB0000159	2.348
P31749	2UZS	HMDB0000159	2.347
P09619	1GQ5	HMDB0000159	2.346
Q06787	2QND	HMDB0000159	2.344
Q99700	3KTR	HMDB0000159	2.344
Q7LG56	3HF1	HMDB0000159	2.343
P78504	2VJ2	HMDB0000159	2.342
P27986	1H9O	HMDB0000159	2.341

P04062	2NT0	HMDB0000159	2.338
P01241	1AXI	HMDB0000159	2.337
P10912	1AXI	HMDB0000159	2.337
P39905	2V5E	HMDB0000159	2.323
P05019	1H02	HMDB0000159	2.317
P26358	3EPZ	HMDB0000159	2.317
P10145	1QE6	HMDB0000159	2.315
O15146	2IEP	HMDB0000159	2.312
Q15465	3M1N	HMDB0000159	2.309
P01579	1EKU	HMDB0000159	2.303
P04637	1GZH	HMDB0000159	2.296
P01584	2NVH	HMDB0000159	2.295
Q9NQC3	1OZN	HMDB0000159	2.292
O00555	3BXX	HMDB0000159	2.287
P60568	1PY2	HMDB0000159	2.266
Q14203	2HL5	HMDB0000159	2.262
P35637	1G5G	HMDB0000159	2.254
P01911	2WBJ	HMDB0000159	2.254
P15289	2AIJ	HMDB0000159	2.253
P01920	1UVQ	HMDB0000159	2.251
Q13936	1T0J	HMDB0000159	2.25
P08833	1ZT3	HMDB0000159	2.249
P42858	3IO4	HMDB0000159	2.247
P06850	1MO1	HMDB0000159	2.245
Q5S007	3D6T	HMDB0000159	2.245
P05231	1ALU	HMDB0000159	2.244
P27487	1W1I	HMDB0000159	2.242
P51608	3C2I	HMDB0000159	2.241
Q8NER1	2NYJ	HMDB0000159	2.233
P11274	1K1F	HMDB0000159	2.225
P16220	1DH3	HMDB0000159	2.207
P01303	1R9N	HMDB0000159	2.18
P41159	3IIQ	HMDB0000159	2.166
P78509	2DDU	HMDB0000159	2.138