

Appendix 2

Genes in *rab5a2* morpholino injected embryos that changed more than 3 fold compared to controls at shield stage

Gene Name	Fold Change	Av	Description	
NM_131052.1_3prime500bases417	0.07	0.07	0.07	ENSDARG0000006939:T-box transcription factor TBX6 (T-box protein 6).
NM_130933.1_3prime500bases429	0.07	0.07	0.07	zic family member 1 (odd-paired homolog, Drosophila) (zic1),
NM_214692.1_3prime500bases406	0.10	0.09	0.09	membrane protein, palmitoylated 1 (mpp1)
NM_131110.1_3prime500bases292	0.14	0.15	0.14	ENSDARG00000011166:Carbonic anhydrase (EC 4.2.1.1) (Carbonate dehydratase).
NM_194392.1_3prime500bases194	0.16	0.18	0.17	ENSDARG00000040216:trophoblast glycoprotein-like [Source:RefSeq_peptide;Acc:NP_919373];
NM_131778.1_3prime500bases132	0.21	0.14	0.17	ENSDARG00000002795:myeloid ecotropic viral integration site 3 [Source:RefSeq_peptide;Acc:NP_571853];
NM_131893.1_3prime500bases348	0.20	0.20	0.20	ENSDARESTG00000004657
LTP4	0.20	0.20	0.20	
NM_130967.1_3prime500bases278	0.27	0.15	0.21	ENSDARG00000025641:GLI-Kruppel family member GLI2a [Source:RefSeq_peptide;Acc:NP_571042];
NM_001002332.1_3prime500bases404	0.20	0.22	0.21	ENSDARG0000007024:zgc:92414 [Source:RefSeq_peptide;Acc:NP_001002332];
NM_131576.1_3prime500bases2	0.23	0.20	0.21	ENSDARG00000007277:myogenic factor 5 [Source:RefSeq_peptide;Acc:NP_571651];
NM_152980.1_3prime500bases185	0.19	0.26	0.23	ENSDARG00000031855:macrophage stimulating 1 (hepatocyte growth factor-like) [Source:RefSeq_peptide;Acc:NP_694512];
NM_131108.1_3prime500bases390	0.23	0.23	0.23	ENSDARG00000036830:type I cytokeratin, enveloping layer [Source:RefSeq_peptide;Acc:NP_571182];
NM_001007454.1_3prime500bases299	0.23	0.24	0.23	ENSDARG00000027699:zgc:101612 [Source:RefSeq_peptide;Acc:NP_001007455];
NM_131716.1_3prime500bases434	0.23	0.23	0.23	ENSDARG00000020708:midkine-related growth factor b [Source:RefSeq_peptide;Acc:NP_571791];
NM_130973.1_3prime500bases361	0.23	0.24	0.24	ENSDARESTG00000005532
NM_131509.1_3prime500bases430	0.24	0.24	0.24	keratin 4 (krt4),
NM_173288.1_3prime500bases371	0.16	0.32	0.24	ENSDARG00000040666:mki67 (FHA domain) interacting nucleolar phosphoprotein (human) - like [Source:RefSeq_peptide;Acc:NP_775395];
NM_131109.1_3prime500bases25	0.25	0.25	0.25	ENSDARG00000036292:caudal type homeo box transcription factor 4 [Source:RefSeq_peptide;Acc:NP_571184];
NM_131163.1_3prime500bases115	0.30	0.20	0.25	ENSDARG00000039694:Beta-2-microglobulin precursor. [Source:Uniprot/SWISSPROT;Acc:Q04475];
NM_131729.2_3prime500bases151	0.17	0.35	0.26	OTTDARG00000006320:si:dkey-197d18.1:Novel_CDS
NM_131209.1_3prime500bases394	0.24	0.29	0.26	protocadherin 8 (pcdh8),
NM_001001950.1_3prime500bases137	0.27	0.27	0.27	ENSDARG00000009849:zic family member 3 heterotaxy 1 (odd-paired homolog, Drosophila) [Source:RefSeq_peptide;Acc:NP_001001950];
NM_201495.1_3prime500bases221	0.24	0.30	0.27	Rab14
NM_201513.1_3prime500bases433	0.27	0.27	0.27	ENSDARG00000042539:tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein, theta polypeptide
NM_200659.1_3prime500bases358	0.27	0.27	0.27	ENSDARG00000025948:mutL homolog 1, colon cancer, nonpolyposis type 2 [Source:RefSeq_peptide;Acc:NP_956953];
CF673299.1_3prime500bases366	0.30	0.25	0.28	ENSDARESTG00000014248 clone CB926 5- similar to Gem-associated protein 5
NM_212567.1_3prime500bases8	0.28	0.28	0.28	ENSDARG00000024204:minichromosome maintenance protein 3 [Source:RefSeq_peptide;Acc:NP_997732];
NM_200111.1_3prime500bases156	0.34	0.23	0.29	ENSDARG00000017748:hypothetical protein LOC378998 [Source:RefSeq_peptide;Acc:NP_956405];
NM_131342.2_3prime500bases296	0.27	0.31	0.29	ENSDARG00000019995:bone morphogenetic protein 4 [Source:RefSeq_peptide;Acc:NP_571417];
NM_001003882.2_3prime500bases425	0.29	0.29	0.29	ENSDARG00000008237:seryl-tRNA synthetase [Source:RefSeq_peptide;Acc:NP_001003882];

NM_173261.1_3prime500bases339	0.28	0.32	0.30	ENSDARG00000010948:kinesin family member 11 [Source:RefSeq_peptide;Acc:NP_775368];
NM_131092.1_3prime500bases291	0.29	0.31	0.30	ENSDARG00000035095:one-eyed pinhead [Source:RefSeq_peptide;Acc:NP_571167];
NM_001003875.1_3prime500bases285	0.31	0.30	0.31	ENSDARG00000037931:U1 small nuclear ribonucleoprotein polypeptide A [Source:RefSeq_peptide;Acc:NP_001003875];
DIG0410_1903	0.31		0.31	
NM_183074.1_3prime500bases334	0.31	0.30	0.31	ENSDARG00000042503:ventrally expressed dharma/bozozok antagonist [Source:RefSeq_peptide;Acc:NP_898897];
NM_131320.1_3prime500bases353	0.34	0.28	0.31	ENSDARG00000023188:lymphocyte cytosolic plastin 1 [Source:RefSeq_peptide;Acc:NP_571395];
NM_131482.1_3prime500bases380	0.35	0.28	0.31	ENSDARG00000005645:roundabout homolog 3 [Source:RefSeq_peptide;Acc:NP_571557];
CD808440.1_3prime500bases215	0.31	0.32	0.32	cDNA clone CB473 5
NM_131363.1_3prime500bases153	0.32	0.32	0.32	ENSDARG00000045102:sine oculis homeobox homolog 3b [Source:RefSeq_peptide;Acc:NP_571438];
NM_131128.1_3prime500bases396	0.33		0.33	ENSDARG00000012076:Apolipoprotein A-I precursor (Apo-AI) (ApoA-I). [Source:Uniprot/SWISSPROT;Acc:O42363];
NM_194371.2_3prime500bases155	0.34	0.33	0.33	ENSDARG00000010124:Sp5 transcription factor-like [Source:RefSeq_peptide;Acc:NP_919352];
NM_130955.1_3prime500bases324	0.35	0.31	0.33	ENSDARESTG00000012353 Delta D
CB923492.1_3prime500bases387	0.36	0.33	0.34	ENSDARG00000004713:hypothetical protein LOC550434 [Source:RefSeq_peptide;Acc:NP_001017739];
NM_001012246.1_3prime500bases23	0.35		0.35	ENSDARG00000035748:fibroblast growth factor 19 [Source:RefSeq_peptide;Acc:NP_001012246];
NM_153660.1_3prime500bases190	0.36	0.34	0.35	ENSDARESTG00000012343
NM_131063.1_3prime500bases24	0.43	0.29	0.36	ENSDARG00000035988:Sonic hedgehog protein precursor (SHH) (VHH-1). [Source:Uniprot/SWISSPROT;Acc:Q92008];
NM_212797.1_3prime500bases426	0.36		0.36	ENSDARG00000019747:3-beta-hydroxysteroid dehydrogenase [Source:RefSeq_peptide;Acc:NP_997962];
AF339031.1_3prime500bases363	0.36	0.36	0.36	ENSDARG00000008487:Hypothetical protein. [Source:Uniprot/SPTREMBL;Acc:Q503T6];
NM_201331.1_3prime500bases423	0.36		0.36	ENSDARG00000012369:retinol dehydrogenase 10 [Source:RefSeq_peptide;Acc:NP_958488];
CF417004.1_3prime500bases377	0.36		0.36	ENSDARG00000036999 clone CB800 5- similar to Zygotic DNA replication factor MCM6b
NM_198876.1_3prime500bases405	0.37		0.37	ENSDARG00000018971:UDP-GlcNAc:betaGal beta-1,3-N-acetylglucosaminyltransferase 5 [Source:RefSeq_peptide;Acc:NP_942577];
CB333812.1_3prime500bases133	0.33	0.42	0.37	CB159 5- similar to Epiplakin
NM_177984.1_3prime500bases24	0.35	0.40	0.37	ENSDARG00000013853:LIM domain only 4 [Source:RefSeq_peptide;Acc:NP_817093];
NM_131690.1_3prime500bases388	0.29	0.48	0.38	ENSDARG00000019856:ATPase, Na+/K+ transporting, alpha 1b polypeptide [Source:RefSeq_peptide;Acc:NP_571765];
NM_194369.1_3prime500bases417	0.38		0.38	ENSDARG00000037563:CD99 antigen-like 2 [Source:RefSeq_peptide;Acc:NP_919350];
NM_131455.1_3prime500bases385	0.43	0.34	0.39	ENSDARG00000014017:Ribonucleoside-diphosphate reductase large subunit (Ribonucleotide reductase protein R1 class I).
NM_173221.2_3prime500bases432	0.39		0.39	ENSDARG00000013839:aldehyde dehydrogenase 3 family, member D1 [Source:RefSeq_peptide;Acc:NP_775328];
DIG0123_592	0.39		0.39	
NM_131139.1_3prime500bases322	0.36	0.42	0.39	ENSDARG00000041755
NM_131876.2_3prime500bases270	0.45	0.33	0.39	ENSDARG00000025372:anti-dorsalizing morphogenic protein [Source:RefSeq_peptide;Acc:NP_571951];
NM_213103.1_3prime500bases427	0.39		0.39	ENSDARG00000045902:hypothetical protein LOC406376 [Source:RefSeq_peptide;Acc:NP_998268];
CK445313.1_3prime500bases394	0.32	0.47	0.39	ENSDARG00000004017 clone CB1089 5- similar to sperm associated antigen 1
NM_131027.1_3prime500bases413	0.41	0.37	0.39	ENSDARG00000002952:smoothened homolog [Source:RefSeq_peptide;Acc:NP_571102];
NM_131882.2_3prime500bases379	0.43	0.37	0.40	ENSDARG00000022476

BU492951.1_3prime500bases183	0.40	0.40	ENSDARG00000035835:hypothetical protein LOC437013 [Source:RefSeq_peptide;Acc:NP_001002740];
NM_131285.1_3prime500bases429	0.40	0.40	ENSDARG00000045569:forkhead box B1.2 [Source:RefSeq_peptide;Acc:NP_571360];
NM_001001811.1_3prime500bases418	0.40	0.40	ENSDARG00000036440:SRV-box containing gene 3 [Source:RefSeq_peptide;Acc:NP_001001811];
NM_201176.1_3prime500bases372	0.40	0.40	ENSDARG00000017775:similar to ATP synthase, H+ transporting, mitochondrial F0 complex, subunit c (subunit 9) isoform 3
NM_130932.1_3prime500bases430	0.41	0.41	ENSDARG00000006355 creatine kinase, muscle (ckm),
NM_200228.1_3prime500bases99	0.41	0.41	ENSDARG00000013973:peroxisomal biogenesis factor 3 [Source:RefSeq_peptide;Acc:NP_956522];
NM_131557.1_3prime500bases429	0.41	0.41	ENSDARG00000035831:GATA-binding protein 6 [Source:RefSeq_peptide;Acc:NP_571632];
NM_199211.1_3prime500bases380	0.45	0.38	0.41 ENSDARG00000030700:CTP synthase [Source:RefSeq_peptide;Acc:NP_954681];
NM_001007768.1_3prime500bases425	0.42	0.42	ENSDARG00000016864:hypothetical protein LOC493608 [Source:RefSeq_peptide;Acc:NP_001007769];
NM_131414.1_3prime500bases435	0.42	0.42	ENSDARG00000040346
NM_001005390.1_3prime500bases12	0.42	0.44	0.43 ENSDARG00000035239:calpain, small subunit 1 [Source:RefSeq_peptide;Acc:NP_001005390];
NM_131250.2_3prime500bases406	0.43	0.43	ENSDARG00000043643:Homeobox protein OTX1 (ZOTX1). [Source:Uniprot/SWISSPROT;Acc:Q91994];
NM_130946.1_3prime500bases316	0.48	0.39	0.43 ENSDARG00000010355:wnt8-like protein 2 [Source:RefSeq_peptide;Acc:NP_001018637];
NM_174861.2_3prime500bases259	0.42	0.44	0.43 ENSDARG00000019268:gastrulation brain homeobox 1 [Source:RefSeq_peptide;Acc:NP_777286];
NM_131511.1_3prime500bases250	0.42	0.44	0.43 ENSDARG00000014673:frizzled 9 [Source:RefSeq_peptide;Acc:NP_571586];
NM_130918.1_3prime500bases156	0.41	0.45	0.43 ENSDARG00000015116:frizzled homolog 8a [Source:RefSeq_peptide;Acc:NP_571629];
NM_131822.1_3prime500bases414	0.44	0.44	ENSDARG00000035563:nocA related zinc finger 1 [Source:RefSeq_peptide;Acc:NP_571897];
NM_212770.1_3prime500bases190	0.44	0.44	0.44 ENSDARG00000005185:carboxypeptidase N, polypeptide 1 [Source:RefSeq_peptide;Acc:NP_997935];
NM_199545.3_3prime500bases397	0.44	0.44	ENSDARESTG00000009422 glutamate dehydrogenase 1b (glud1b),
NM_131066.1_3prime500bases239	0.39	0.50	0.44 ENSDARG00000044163:snail homolog 1a [Source:RefSeq_peptide;Acc:NP_571141];
NM_001003501.1_3prime500bases284	0.43	0.46	0.44 ENSDARG00000012341:zgc:92451 [Source:RefSeq_peptide;Acc:NP_001003501];
DIG0166_2731	0.44	0.44	0.44 ENSDARG00000014323:hypothetical protein LOC436960 [Source:RefSeq_peptide;Acc:NP_001002687];
NM_183072.1_3prime500bases189	0.40	0.49	0.45 ENSDARESTG00000016845 thioredoxin reductase 1 (txnrd1),
NM_213118.1_3prime500bases147	0.49	0.41	0.45 ENSDARG00000014243:SRV-box containing gene 2 [Source:RefSeq_peptide;Acc:NP_998283];
NM_199949.2_3prime500bases413	0.45	0.45	ENSDARG00000044521:eukaryotic translation elongation factor 1 beta 2 [Source:RefSeq_peptide;Acc:NP_956243];
NM_131884.2_3prime500bases139	0.43	0.47	0.45 ENSDARG00000045369:CCAAT/enhancer binding protein beta [Source:RefSeq_peptide;Acc:NP_571959];
NM_130960.1_3prime500bases226	0.43	0.47	0.45 ENSDARG00000019920:lefty1 [Source:RefSeq_peptide;Acc:NP_571035];
NM_198817.1_3prime500bases426	0.42	0.48	0.45 ENSDARESTG00000016981 starmaker (stm)
CF416995.1_3prime500bases416	0.42	0.49	0.46 CB791 5- similar to Cytochrome P450
NM_212612.1_3prime500bases264	0.41	0.51	0.46 DEAD (Asp-Glu-Ala-Asp) box polypeptide 5 (ddx5),
NM_183343.1_3prime500bases271	0.36	0.56	0.46 ENSDARG00000037593:prickle-like 2 [Source:RefSeq_peptide;Acc:NP_899186];
NM_200080.2_3prime500bases345	0.42	0.50	0.46 ENSDARG00000029086:keratin 8 [Source:RefSeq_peptide;Acc:NP_956374];
DIG0408_1690	0.47	0.47	
NM_200297.1_3prime500bases253	0.47	0.47	ENSDARG00000036820:monoglyceride lipase [Source:RefSeq_peptide;Acc:NP_956591];

NM_200703.2_3prime500bases423	0.47		0.47	ENSDARG00000013627 golgi reassembly stacking protein 2 (gorasp2),
NM_131251.1_3prime500bases235	0.46	0.50	0.48	ENSDARG00000011235:Homeobox protein OTX2 (ZOTX2). [Source:Uniprot/SWISSPROT;Acc:Q91981];
NM_199543.1_3prime500bases70	0.51	0.45	0.48	ENSDARG00000025147:Cd63 antigen [Source:RefSeq_peptide;Acc:NP_955837];
NM_205567.1_3prime500bases270	0.48		0.48	ENSDARG00000006603:cysteine and glycine-rich protein 1 [Source:RefSeq_peptide;Acc:NP_991130];
NM_131851.1_3prime500bases133	0.45	0.51	0.48	ENSDARG000000041341:SRY-box containing gene 32 [Source:RefSeq_peptide;Acc:NP_571926];
NM_131637.1_3prime500bases240	0.50	0.47	0.49	ENSDARG000000014047:Claudin-like protein ZF4A22 (Claudin-7). [Source:Uniprot/SWISSPROT;Acc:Q9YH92];
CF416991.1_3prime500bases421	0.49		0.49	OTTDARG00000002123:add1:Novel_CDS
NM_130908.1_3prime500bases107	0.48	0.50	0.49	OTTDARG00000002166:zgc:55628:Novel_CDS
NM_212636.1_3prime500bases290	0.46	0.53	0.49	ENSDARG000000035720
CF673281.1_3prime500bases425	0.47	0.52	0.50	ENSDARESTG00000018874 clone CB967 5- similar to Filamin A,
NM_130934.1_3prime500bases362	0.48	0.52	0.50	ENSDARESTG00000012572 hematopoietically expressed homeobox (hhex),
NM_207048.1_3prime500bases204	0.55	0.46	0.50	ENSDARESTG00000012052
NM_200042.1_3prime500bases0	0.62	0.39	0.50	ENSDARG000000034443:hypothetical protein LOC336959 [Source:RefSeq_peptide;Acc:NP_956336];
CF673300.1_3prime500bases47	0.54	0.47	0.51	ENSDARG00000009569 clone CB882 5- similar to Transcriptional enhancer factor TEF-5
NM_205702.1_3prime500bases229	0.51		0.51	
NM_131146.2_3prime500bases230	0.48	0.53	0.51	ENSDARG000000033999:Cytochrome P450 26A1 (EC 1.14.-.-) (Retinoic acid-metabolizing cytochrome) (P450RA1) (Retinoic acid 4-hydroxylase).
DIG0131_1438	0.51		0.51	ENSDARG000000058538:hypothetical protein LOC323048 [Source:RefSeq_peptide;Acc:NP_997799];
golgb1_3prime500bases306	0.51		0.51	ENSDARESTG000000025521
NM_212602.1_3prime500bases425	0.52		0.52	ENSDARG000000011127:AHA1, activator of heat shock 90kDa protein ATPase homolog 1, like [Source:RefSeq_peptide;Acc:NP_997767];
map3k4_3prime500bases366	0.54	0.51	0.52	ENSDARG000000039153:Hypothetical protein (Fragment). [Source:Uniprot/SPTREMBL;Acc:Q5BJ15];
NM_182855.1_3prime500bases391	0.52		0.52	ENSDARG000000040030
CF673278.1_148	0.52		0.52	ENSDARG000000013040 clone CB964 5- similar to adaptor-related protein complex AP-3, beta 1 subunit,
NM_131207.1_3prime500bases102	0.53	0.51	0.52	ENSDARG00000007944:LIM homeobox 1b [Source:RefSeq_peptide;Acc:NP_571282];
NM_173244.1_3prime500bases425	0.52		0.52	ENSDARG000000024904:TAL1 (SCL) interrupting locus like [Source:RefSeq_peptide;Acc:NP_775351];
NM_131205.1_3prime500bases434	0.52		0.52	ENSDARG000000029079
DIG0144_634	0.53		0.53	ENSDARG000000040543:LOC407680 protein (Fragment). [Source:Uniprot/SPTREMBL;Acc:Q6NW88];
NM_131221.1_3prime500bases428	0.53		0.53	ENSDARG000000015790:ATPase, Na ⁺ /K ⁺ transporting, beta 3a polypeptide [Source:RefSeq_peptide;Acc:NP_571296];
NM_173219.1_3prime500bases185	0.47	0.60	0.53	
NM_199433.1_3prime500bases434	0.54		0.54	ENSDARG000000045679:meiosis-specific nuclear structural protein 1 [Source:RefSeq_peptide;Acc:NP_955465];
NM_198824.1_3prime500bases417	0.57	0.51	0.54	ENSDARESTG000000013713
NM_131404.1_3prime500bases5	0.54		0.54	ENSDARG000000042750:Proliferating cell nuclear antigen (PCNA). [Source:Uniprot/SWISSPROT;Acc:Q9PTP1];
NM_131300.1_3prime500bases373	0.55		0.55	ENSDARG000000011956:Homeobox protein Dlx4a (DLX-8). [Source:Uniprot/SWISSPROT;Acc:Q98879];
NM_131079.1_3prime500bases285	0.55	0.55	0.55	ENSDARESTG000000005674
NM_001003774.1_3prime500bases342	0.54	0.56	0.55	ENSDARG000000015123:zgc:101000 [Source:RefSeq_peptide;Acc:NP_001003774];

NM_130943.1_3prime500bases110	0.47	0.63	0.55	ENSDARG00000018383:frizzled-related protein [Source:RefSeq_peptide;Acc:NP_571018];
NM_131112.1_3prime500bases408	0.55		0.55	ENSDARG00000044774:POU domain, class 5, transcription factor 1 (POU domain protein 2). [Source:Uniprot/SWISSPROT;Acc:Q90270];
NM_001007282.1_3prime500bases238	0.55		0.55	glutathione peroxidase 4a (gpx4a),
NM_001012263.1_3prime500bases63	0.55		0.55	ENSDARG00000036126:fibroblast growth factor receptor-like 1b [Source:RefSeq_peptide;Acc:NP_001012263];
BU080676.1_3prime500bases100	0.58	0.53	0.55	ENSDARESTG00000018543 clone CB477 5- similar to Cysteine proteinase
NM_131290.1_3prime500bases274	0.56	0.55	0.55	ENSDARG00000021032:forkhead box D3 [Source:RefSeq_peptide;Acc:NP_571365];
NM_131516.1_3prime500bases368	0.56		0.56	ENSDARG00000002768:Parvalbumin beta. [Source:Uniprot/SWISSPROT;Acc:Q918V0];
NM_214731.1_3prime500bases116	0.51	0.60	0.56	ENSDARG00000039675:dapper homolog 1, antagonist of beta-catenin (xenopus) [Source:RefSeq_peptide;Acc:NP_999896];
DIG0345_1024	0.56		0.56	ENSDARG00000040815:hypothetical protein LOC325958 [Source:RefSeq_peptide;Acc:NP_956027];
NM_152953.2_3prime500bases421	0.56		0.56	ENSDARESTG00000017250
NM_201586.1_3prime500bases434	0.56		0.56	
NM_212690.1_3prime500bases326	0.47	0.65	0.56	ENSDARG00000042728:phospholipase A2-activating protein [Source:RefSeq_peptide;Acc:NP_997855];
NM_200059.1_3prime500bases52	0.56		0.56	ENSDARG00000017514:ribosomal protein S3A [Source:RefSeq_peptide;Acc:NP_956353];
NM_001008615.1_3prime500bases182	0.55	0.57	0.56	ENSDARG00000041065:heat shock protein 1 [Source:RefSeq_peptide;Acc:NP_001008615];
NM_131668.3_3prime500bases390	0.56		0.56	ENSDARG00000013144:ATPase, Na+/K+ transporting, beta 1a polypeptide [Source:RefSeq_peptide;Acc:NP_571743];
NM_130937.1_3prime500bases293	0.51	0.63	0.57	ENSDARG00000034894:Wnt-5 protein precursor. [Source:Uniprot/SWISSPROT;Acc:Q92050];
NM_199521.2_3prime500bases181	0.62	0.52	0.57	ENSDARG00000030871:Ubiquitin ligase Siah1 (EC 6.3.2.-) (Seven in absentia homolog 1) (Siah-1). [Source:Uniprot/SWISSPROT;Acc:Q7ZVG6];
NM_131874.1_3prime500bases111	0.54	0.61	0.57	ENSDARG00000035622:X-box binding protein 1 [Source:RefSeq_peptide;Acc:NP_571949];
NM_212777.1_3prime500bases148	0.58		0.58	ENSDARG00000025071:bromodomain containing 8 [Source:RefSeq_peptide;Acc:NP_997942];
NM_131685.1_3prime500bases48	0.58	0.58	0.58	ENSDARG00000018259:ATPase, Na+/K+ transporting, alpha 3b polypeptide [Source:RefSeq_peptide;Acc:NP_571760];
NM_181559.1_3prime500bases48	0.58		0.58	ENSDARG00000039128:glutamine synthetase 1 [Source:RefSeq_peptide;Acc:NP_853537];
NM_200025.1_365	0.58		0.58	ENSDARG00000037071:ribosomal protein S26 [Source:RefSeq_peptide;Acc:NP_956319];
NM_182871.1_3prime500bases170	0.55	0.62	0.58	ENSDARG00000037677:fibroblast growth factor 24 [Source:RefSeq_peptide;Acc:NP_878291];
NM_200583.1_3prime500bases141	0.61	0.56	0.58	ENSDARG00000013475:chaperonin containing TCP1, subunit 4 (delta) [Source:RefSeq_peptide;Acc:NP_956877];
NM_200099.1_3prime500bases116	0.58	0.59	0.59	ENSDARG00000012000:dynein light chain (10.3 kD) (dlc-1) [Source:RefSeq_peptide;Acc:NP_956393];
NM_205585.1_3prime500bases190	0.59		0.59	ENSDARG00000035521:secreted frizzled-related protein 1 [Source:RefSeq_peptide;Acc:NP_991148];
NM_201099.1_3prime500bases418	0.59		0.59	ENSDARG00000035320:similar to heterogeneous nuclear ribonucleoprotein L [Source:RefSeq_peptide;Acc:NP_957393];
NM_131114.1_3prime500bases186	0.59		0.59	ENSDARG00000036141
BU670726.1_3prime500bases263	0.64	0.55	0.59	ENSDARG00000010946:cystathionine-beta-synthase [Source:RefSeq_peptide;Acc:NP_001014367];
NM_131058.1_3prime500bases378	0.59		0.59	ENSDARG00000007329:T-box gene 16 [Source:RefSeq_peptide;Acc:NP_571133];
NM_131417.1_3prime500bases247	0.53	0.65	0.59	OTTDARG00000007314:si:ch211-132p20.4:Novel_CDS
CF673276.1_3prime500bases105	0.56	0.63	0.60	ENSDARESTG00000010586 clone CB960 5- similar to Nucleolar RNA helicase II,
NM_201206.1_3prime500bases257	0.60		0.60	ENSDARG00000011626:COX15 homolog, cytochrome c oxidase assembly protein [Source:RefSeq_peptide;Acc:NP_957500];
BU670702.1_3prime500bases280	0.66	0.54	0.60	ENSDARG00000003509 CB407 5- similar to SPT:Q8UVV4 ATP-binding cassette transporter 1

NM_194388.1_3prime500bases354	0.59	0.61	0.60	ENSDARG00000036700:tubulin, alpha 1 [Source:RefSeq_peptide;Acc:NP_919369];
NM_131287.2_3prime500bases377	0.56	0.64	0.60	ENSDARG00000041345:SRY-box 17 [Source:RefSeq_peptide;Acc:NP_571362];
NM_199536.2_3prime500bases255	0.59	0.61	0.60	ENSDARESTG00000007995
NM_173236.1_3prime500bases247	0.60		0.60	ENSDARG00000015427:histone deacetylase 1 [Source:RefSeq_peptide;Acc:NP_775343];
NM_131415.1_3prime500bases4	0.59	0.61	0.60	ENSDARG00000017354:eph-like receptor tyrosine kinase 6 [Source:RefSeq_peptide;Acc:NP_571490];
NM_201514.1_3prime500bases375	0.56	0.64	0.60	ENSDARG00000037012:solute carrier family 3, member 2 like [Source:RefSeq_peptide;Acc:NP_958922];
NM_131140.1_3prime500bases144	0.61		0.61	
NM_205732.1_3prime500bases414	0.61		0.61	
NM_001007761.1_3prime500bases0	0.61		0.61	ENSDARG00000026759:adaptor-related protein complex 1 mu 1 subunit [Source:RefSeq_peptide;Acc:NP_991277];
NM_199995.1_157	0.61		0.61	
NM_201576.1_3prime500bases131	0.61		0.61	ENSDARG00000034351:transgelin 2 [Source:RefSeq_peptide;Acc:NP_963870];
NM_131245.1_3prime500bases275	0.61	0.61	0.61	
NM_201325.1_3prime500bases341	0.61		0.61	ENSDARG00000021242:major vault protein [Source:RefSeq_peptide;Acc:NP_958482];
NM_130971.1_3prime500bases0	0.62	0.61	0.62	ENSDARG00000037879:Beta-1,3-N-acetylglucosaminyltransferase lunatic fringe (EC 2.4.1.222) (O-fucosylpeptide 3-beta-N-acetylglucosaminyltransferase).
NM_131069.2_3prime500bases167	0.62		0.62	
NM_131860.1_3prime500bases339	0.62		0.62	ENSDARG00000015472:knypek [Source:RefSeq_peptide;Acc:NP_571935];
BC090314.1_3prime500bases19	0.62	0.63	0.62	ENSDARG00000013575:hypothetical protein LOC503590 [Source:RefSeq_peptide;Acc:NP_001013296];
NM_001003890.2_3prime500bases158	0.59	0.66	0.62	ENSDARG00000020869:polo-like kinase 1 [Source:RefSeq_peptide;Acc:NP_001003890];
NM_131116.2_3prime500bases13	0.63		0.63	ENSDARG00000000175:Homeobox protein Hox-B2a (Hox-B2). [Source:Uniprot/SWISSPROT;Acc:O42367];
NM_201475.1_3prime500bases382	0.63		0.63	ENSDARG00000031495:SET translocation (myeloid leukemia-associated) A [Source:RefSeq_peptide;Acc:NP_958883];
NM_131355.1_3prime500bases253	0.63		0.63	ENSDARG00000014943:kinesin family member 23 [Source:RefSeq_peptide;Acc:NP_571430];
NM_001005919.1_3prime500bases364	0.64	0.63	0.64	ENSDARG00000019848:Ephrin type-A receptor 4a (EC 2.7.1.112) (Tyrosine-protein kinase receptor ZEK2) (EPH-like kinase 2) (Fragment).
NM_199430.1_3prime500bases422	0.64		0.64	ENSDARG00000036180:cyclin B2 [Source:RefSeq_peptide;Acc:NP_955462];
NM_201488.1_3prime500bases105	0.64		0.64	ENSDARG00000020468:protein phosphatase 1G (formerly 2C), magnesium-dependent, gamma isoform [Source:RefSeq_peptide;Acc:NP_958896];
NM_194377.2_3prime500bases431	0.64		0.64	ENSDARG00000011665:aldolase a, fructose-bisphosphate [Source:RefSeq_peptide;Acc:NP_919358];
DIG0407_1918	0.64		0.64	ENSDARG00000038547:Semaphorin-4E precursor (Semaphorin-7) (Semaphorin Z7) (Sema-Z7). [Source:Uniprot/SWISSPROT;Acc:Q9YHX4];
NM_152949.1_3prime500bases275	0.62	0.66	0.64	ENSDARESTG00000006863
AY216588.1_3prime500bases143	0.64		0.64	ENSDARG00000023220:Selenoprotein T2 (Fragment). [Source:Uniprot/SPTREMBL;Acc:Q802G4];
BC075970.1_3prime500bases424	0.64		0.64	ENSDARG00000006427:Intestinal fatty acid-binding protein. [Source:Uniprot/SPTREMBL;Acc:Q8AX65];
NM_200076.1_3prime500bases137	0.65		0.65	ENSDARG00000034396:methionine-tRNA synthetase [Source:RefSeq_peptide;Acc:NP_956370];
NM_201491.1_3prime500bases432	0.65		0.65	ENSDARG00000042853:isovaleryl Coenzyme A dehydrogenase [Source:RefSeq_peptide;Acc:NP_958899];
NM_212603.1_3prime500bases94	0.65		0.65	ENSDARG00000023330:acidic (leucine-rich) nuclear phosphoprotein 32 family, member B [Source:RefSeq_peptide;Acc:NP_997768];
AB097826.1_3prime500bases19	0.65		0.65	ENSDARG00000002403:Hypothetical protein YF-9 (Fragment). [Source:Uniprot/SPTREMBL;Acc:Q7T2W2];
BM402093.1_3	0.65		0.65	ENSDARG00000037980:Hypothetical protein (Fragment). [Source:Uniprot/SPTREMBL;Acc:Q7SYJ8];

NM_001002312.1_3prime500bases360	0.66	0.64	0.65	ENSDARG00000041870:intraflagellar transport 172 [Source:RefSeq_peptide;Acc:NP_001002312];
NM_200458.2_3prime500bases36	0.65		0.65	ENSDARG00000003016:eukaryotic translation elongation factor 2, like [Source:RefSeq_peptide;Acc:NP_956752];
NM_201153.1_3prime500bases426	0.65		0.65	ENSDARG00000046119:ribosomal protein S3 [Source:RefSeq_peptide;Acc:NP_957447];
DIG0366_880	0.66		0.66	
CF569085.1_3prime500bases370	0.66		0.66	ENSDARG00000020386 CB939 5- similar to ATP-binding cassette transporter 1,
NM_001009884.1_3prime500bases206	0.66		0.66	ENSDARG00000041895:carbonyl-phosphate synthetase 2, aspartate transcarbamylase, and dihydroorotase [Source:RefSeq_peptide;Acc:NP_001009884];
NM_200772.1_3prime500bases421	0.66		0.66	ENSDARG00000007880
NM_194423.1_3prime500bases225	0.66		0.66	ENSDARG00000029370:ankyrin repeat domain 6 [Source:RefSeq_peptide;Acc:NP_919404];
NM_198914.2_3prime500bases225	0.24	1.74	0.99	ENSDARG00000033170:sulfotransferase family, cytosolic sulfotransferase 2 [Source:RefSeq_peptide;Acc:NP_944596];
NM_130945.1_3prime500bases213	1.50		1.50	ENSDARG00000015717:fms-related tyrosine kinase 4 [Source:RefSeq_peptide;Acc:NP_571020];
NM_200103.1_3prime500bases358	1.50		1.50	ENSDARG00000005254:KDEL (Lys-Asp-Glu-Leu) endoplasmic reticulum protein retention receptor 2 [Source:RefSeq_peptide;Acc:NP_956397];
NM_201499.1_3prime500bases421	1.51		1.51	ENSDARG00000025375:isocitrate dehydrogenase 1 (NADP+), soluble [Source:RefSeq_peptide;Acc:NP_958907];
NM_001004494.1_3prime500bases331	1.52		1.52	ENSDARG00000010511:protein regulator of cytokinesis 1 (prc1), mRNA [Source:RefSeq_dna;Acc:NM_001004494];
NM_131684.2_3prime500bases122	1.52		1.52	ENSDARG00000036815:ATPase, Na+/K+ transporting, alpha 3a polypeptide [Source:RefSeq_peptide;Acc:NP_571759];
NM_205716.1_3prime500bases20	1.53		1.53	ENSDARG00000029911:cancer susceptibility candidate 3 [Source:RefSeq_peptide;Acc:NP_991279];
DIG0311_361	1.53		1.53	
NM_001007774.1_3prime500bases195	1.51	1.57	1.54	ENSDARG00000043631:BCAS2 protein homolog. [Source:Uniprot/SWISSPROT;Acc:Q5RKQ0];
NM_201292.1_3prime500bases426	1.54		1.54	ENSDARG00000029928:adaptor-related protein complex 3, mu 1 subunit [Source:RefSeq_peptide;Acc:NP_958449];
NM_194418.1_3prime500bases329	1.54		1.54	ENSDARG00000038227:selenoprotein W, 2b (sepw2b), mRNA [Source:RefSeq_dna;Acc:NM_194418];
NM_131105.2_3prime500bases297	1.56		1.56	
NM_201178.1_3prime500bases401	1.56		1.56	ENSDARG00000014577:Rhopilin 2 (GTP-Rho binding protein 2). [Source:Uniprot/SWISSPROT;Acc:Q6TNR1];
NM_199218.1_3prime500bases428	1.56		1.56	ENSDARESTG00000008073
NM_200318.2_3prime500bases431	1.56		1.56	ENSDARG00000035948:ADP-ribosylation factor-like 4 [Source:RefSeq_peptide;Acc:NP_956612];
NM_200078.1_3prime500bases197	1.56	1.57	1.56	ENSDARG00000028514:Cbp/p300-interacting transactivator, with Glu/Asp-rich carboxy-terminal domain, 2 [Source:RefSeq_peptide;Acc:NP_956372];
NM_198811.1_3prime500bases372	1.57		1.57	
cos2.fas_3prime500bases156	1.58	1.56	1.57	ENSDARG00000033099:kinesin family member 7 [Source:RefSeq_peptide;Acc:NP_001014816];
NM_131047.1_3prime500bases235	1.57		1.57	ENSDARG00000043276:calreticulin [Source:RefSeq_peptide;Acc:NP_571122];
NM_212676.1_3prime500bases153	1.58		1.58	ENSDARG00000042533
NM_131100.1_3prime500bases400	1.58		1.58	ENSDARG00000042769:orthopedia protein [Source:RefSeq_peptide;Acc:NP_571175];
BU670740.1_3prime500bases139	1.59		1.59	ENSDARG00000035052 CB457 5- similar to SPT:Q96S59 Q96S59 RanBPM
NM_214759.1_3prime500bases129	1.59		1.59	ENSDARG00000039150:hypothetical protein LOC406625 [Source:RefSeq_peptide;Acc:NP_999924];
NM_198978.1_3prime500bases380	1.59		1.59	ENSDARESTG00000016872
NM_199432.1_3prime500bases65	1.57	1.62	1.59	ENSDARG00000039168:hypothetical protein LOC368331 [Source:RefSeq_peptide;Acc:NP_955464];
NM_181663.1_3prime500bases94	1.60		1.60	ENSDARG00000022987:sizzled [Source:RefSeq_peptide;Acc:NP_858049];

NM_131233.1_3prime500bases410	1.60		1.60	
NM_199533.1_3prime500bases407	1.60		1.60	ENSDARG00000008867:RAS related protein 1b [Source:RefSeq_peptide;Acc:NP_955827];
CF569098.1_3prime500bases382	1.60		1.60	ENSDARG00000004169 clone CB959 5- similar to Stathmin
BU808703.1_3prime500bases5	1.60		1.60	CB516 5- similar to C-ets-1 protein, mRNA sequence
NM_212801.1_3prime500bases323	1.60		1.60	ENSDARG000000039211:hypothetical protein LOC378987 [Source:RefSeq_peptide;Acc:NP_997966];
NM_200081.1_3prime500bases230	1.71	1.51	1.61	ENSDARG000000032802:kinectin 1 [Source:RefSeq_peptide;Acc:NP_956375];
NM_212648.1_3prime500bases409	1.61		1.61	ENSDARG000000012936:dishevelled 2, dsh homolog [Source:RefSeq_peptide;Acc:NP_997813];
NM_131613.1_3prime500bases161	1.57	1.66	1.62	ENSDARG000000005315:CUG triplet repeat, RNA-binding protein 1 [Source:RefSeq_peptide;Acc:NP_571688];
NM_198871.1_3prime500bases153	1.62		1.62	
BM402137.1_3prime500bases375	1.63		1.63	ENSDARESTG000000017103 CB193 5- similar to PROSTAGLANDINE D SYNTHASE,
NM_131759.1_3prime500bases434	1.63		1.63	ENSDARG000000036516:hemoglobin beta embryonic-1 [Source:RefSeq_peptide;Acc:NP_571834];
NM_212795.1_3prime500bases117	1.51	1.75	1.63	ENSDARG000000022813:Dead end protein 1. [Source:Uniprot/SWISSPROT;Acc:Q7T1H5];
NM_212572.1_3prime500bases190	1.63		1.63	ENSDARG000000037846:histocompatibility 13 [Source:RefSeq_peptide;Acc:NP_997737];
NM_131282.1_3prime500bases360	1.59	1.69	1.64	ENSDARG000000036385:forkhead box A sequence [Source:RefSeq_peptide;Acc:NP_571357];
NM_130923.1_3prime500bases410	1.51	1.77	1.64	microphthalmia-associated transcription factor a (mitfa),
NM_131227.1_3prime500bases133	1.58	1.70	1.64	ENSDARG000000043071:Retinal homeobox protein Rx3. [Source:Uniprot/SWISSPROT;Acc:O42358];
NM_212608.1_3prime500bases359	1.76	1.53	1.65	ENSDARG000000017422:bscv (C20orf3) homolog [Source:RefSeq_peptide;Acc:NP_997773];
NM_199212.1_3prime500bases100	1.63	1.67	1.65	ENSDARG000000025522:serum/glucocorticoid regulated kinase [Source:RefSeq_peptide;Acc:NP_954682];
NM_200110.1_3prime500bases107	1.65	1.65	1.65	ENSDARG000000042152:nudix-type motif 4 [Source:RefSeq_peptide;Acc:NP_956404];
NM_213348.2_3prime500bases384	1.65		1.65	
NM_212748.1_3prime500bases192	1.81	1.53	1.67	
NM_194401.1_3prime500bases291	1.55	1.79	1.67	ENSDARG000000002131:CUG triplet repeat, RNA binding protein 2 [Source:RefSeq_peptide;Acc:NP_919382];
NM_212664.1_3prime500bases341	1.67		1.67	ENSDARG000000040004
NM_131246.1_3prime500bases227	1.78	1.56	1.67	ENSDARG000000040856:L-lactate dehydrogenase A chain (EC 1.1.1.27) (LDH-A). [Source:Uniprot/SWISSPROT;Acc:Q9PVK5];
NM_131775.1_3prime500bases4	1.67		1.67	ENSDARG000000004251:dihydrofolate reductase [Source:RefSeq_peptide;Acc:NP_571850];
NM_131247.1_3prime500bases423	1.68		1.68	ENSDARG000000035139
NM_198805.1_3prime500bases186	1.58	1.79	1.68	ENSDARG000000018174:guanine nucleotide binding protein (G protein), alpha inhibiting activity polypeptide a [Source:RefSeq_peptide;Acc:NP_942100];
CF924899.2_42	1.69		1.69	ENSDARG000000040469:hypothetical protein LOC541400 [Source:RefSeq_peptide;Acc:NP_001013545];
NM_001007351.1_3prime500bases48	1.69		1.69	ENSDARG000000043495:hypothetical protein LOC492479 [Source:RefSeq_peptide;Acc:NP_001007352];
NM_201465.2_3prime500bases195	1.69		1.69	ENSDARG000000020103:calreticulin like [Source:RefSeq_peptide;Acc:NP_958873];
NM_201454.1_3prime500bases258	1.60	1.79	1.69	ENSDARG000000020261:RAB2, member RAS oncogene family [Source:RefSeq_peptide;Acc:NP_958862];
NM_131664.1_3prime500bases224	1.57	1.82	1.70	ENSDARESTG000000014726
NM_130954.1_3prime500bases259	1.70		1.70	ENSDARG000000010791:deltaA [Source:RefSeq_peptide;Acc:NP_571029];
NM_130922.1_3prime500bases109	1.76	1.65	1.70	ENSDARG000000020298:B-cell translocation gene 2 [Source:RefSeq_peptide;Acc:NP_570997];

NM_131802.1_3prime500bases421	1.71	1.71	ENSDARG00000011683:HHGP protein [Source:RefSeq_peptide;Acc:NP_955812];
NM_198980.1_3prime500bases80	1.73	1.73	ENSDARG00000004311:low density lipoprotein receptor adaptor protein 1 [Source:RefSeq_peptide;Acc:NP_945331];
NM_200075.1_3prime500bases326	1.73	1.73	ENSDARG00000007665:Similar to RIKEN cDNA 1500019G21 gene [Source:RefSeq_peptide;Acc:NP_956369];
NM_130939.1_3prime500bases418	1.74	1.74	cth1 (cth1),
NM_205728.1_3prime500bases429	1.74	1.74	ENSDARG00000040316:GLI-Kruppel family member GLI3 [Source:RefSeq_peptide;Acc:NP_991291];
AJ245493.1_3prime500bases233	1.79	1.71	1.75 hypothetical protein clone sd70
Zlfi3a_3prime500bases159	1.90	1.61	1.76
DIG0206_970 DIG0124_1096	1.68	1.84	1.76 ENSDARG00000006604:Poliovirus receptor-related protein 3 precursor. [Source:Uniprot/SWISSPROT;Acc:Q58EG3];
NM_199683.1_3prime500bases383	1.77	1.77	ENSDARG00000041607:Eukaryotic translation initiation factor 4E-1A binding protein (eIF4E- 1A binding protein) (4E-BP).
NM_198810.1_3prime500bases236	1.80	1.74	1.77
DIG0351_1132	1.77	1.77	1.77
NM_201299.1_3prime500bases275	1.82	1.72	1.77 ENSDARG00000025904:glycoprotein, synaptic 2 [Source:RefSeq_peptide;Acc:NP_958456];
NM_001007120.1_3prime500bases305	1.87	1.67	1.77 ENSDARG000000034731:homeodomain leucine zipper [Source:RefSeq_peptide;Acc:NP_001007121];
BQ826572.1_3prime500bases187	1.79	1.79	1.79 cDNA clone CB349 5- similar to Complement component C7, mRNA sequence
NM_212790.1_3prime500bases415	1.79	1.79	ENSDARG000000016424:yippee-like 3 [Source:RefSeq_peptide;Acc:NP_997955];
NM_001001725.1_3prime500bases42	1.79	1.79	ENSDARESTG000000002678:intraflagellar transport 88 homolog (ift88),
NM_173222.1_3prime500bases325	1.72	1.86	1.79 ENSDARG000000043257:creatine kinase, brain [Source:RefSeq_peptide;Acc:NP_775329];
CF417021.1_3prime500bases292	1.54	2.06	1.80 ENSDARESTG000000021028 CB817 5- similar to ZO-1 MDCK
NM_201577.1_3prime500bases427	1.80	1.80	ENSDARG000000005675
NM_131184.2_3prime500bases100	1.51	2.09	1.80 ENSDARG000000028148
NM_153674.1_3prime500bases325	1.81	1.81	ENSDARG000000027397:vang-like 2 (van gogh, Drosophila) (vangl2), mRNA [Source:RefSeq_dna;Acc:NM_153674];
NM_214808.1_3prime500bases249	2.00	1.61	1.81 ENSDARG000000023520:Fibroblast growth factor-17b precursor (FGF-17b). [Source:Uniprot/SWISSPROT;Acc:Q6SJP8];
NM_199481.1_3prime500bases292	1.83	1.80	1.82 ENSDARG000000037742:cyclin G1 (ccng1), mRNA [Source:RefSeq_dna;Acc:NM_199481];
NM_131848.1_3prime500bases424	1.82	1.82	ENSDARG000000004729:transcription factor binding to IGHM enhancer 3a [Source:RefSeq_peptide;Acc:NP_571923];
NM_001003980.1_3prime500bases380	1.83	1.83	ENSDARG000000002330:LIM homeobox 8 [Source:RefSeq_peptide;Acc:NP_001003980];
BM402118.1_3prime500bases243	1.79	1.87	1.83 ENSDARG000000014499:hypothetical protein LOC445204 [Source:RefSeq_peptide;Acc:NP_001003598];
CF416980.1_3prime500bases316	1.92	1.74	1.83 ENSDARG000000042428 5- similar to Glutathione S-transferase 1
CF417024.1_1	1.83	1.83	ENSDARG000000024746:Novel protein similar to heat shock protein 90-alpha (Hsp90a).ENSDARG00000010478:Heat shock protein HSP 90-alpha.
NM_130948.1_3prime500bases351	1.83	1.83	ENSDARG000000037995:DVR-1 protein precursor. [Source:Uniprot/SWISSPROT;Acc:P35621];
NM_131271.1_3prime500bases267	1.84	1.84	ENSDARG000000043147:forkhead box D1 [Source:RefSeq_peptide;Acc:NP_571346];
NM_131360.1_3prime500bases428	1.84	1.84	ENSDARG000000041430:bone morphogenetic protein 2b [Source:RefSeq_peptide;Acc:NP_571435];
NM_201461.1_3prime500bases414	1.77	1.92	1.84 ENSDARG000000029072:Kruppel-like factor 6 [Source:RefSeq_peptide;Acc:NP_958869];
NM_181766.1_3prime500bases400	1.85	1.85	ENSDARG000000002632
DIG0203_403	1.85	1.85	1.85

NM_131348.2_3prime500bases108	1.65	2.10	1.87	ENSDARG00000014125:friend leukemia integration 1 [Source:RefSeq_peptide;Acc:NP_571423];
NM_199976.1_3prime500bases342	1.85	1.90	1.87	ENSDARG00000042644:manganese-containing superoxide dismutase precursor [Source:RefSeq_peptide;Acc:NP_956270];
Rab23_3prime500bases355	1.71	2.04	1.87	ENSDARG00000004151:hypothetical protein LOC553778 [Source:RefSeq_peptide;Acc:NP_001018579];
NM_200086.1_3prime500bases368	1.88	1.88	1.88	ENSDARG00000014351;ENSDARG00000035957:geminin, DNA replication inhibitor [Source:RefSeq_peptide;Acc:NP_956380];
NM_131219.1_3prime500bases62	1.88	1.88	1.88	ENSDARG00000038386:achaete-scute complex-like 1a [Source:RefSeq_peptide;Acc:NP_571294];
NM_198877.1_3prime500bases272	1.87	1.90	1.88	ENSDARG00000042931:muscle-specific beta 1 integrin binding protein 2 [Source:RefSeq_peptide;Acc:NP_942578];
NM_131765.1_3prime500bases258	1.98	1.81	1.89	ENSDARG00000043128:claudin e [Source:RefSeq_peptide;Acc:NP_571840];
DIG0118_859	1.90	1.90	1.90	ENSDARG00000018065:Igln2 [Source:RefSeq_peptide;Acc:NP_001003852];
NM_130940.1_3prime500bases425	1.89	1.93	1.91	ENSDARG00000009737:bonnie and clyde [Source:RefSeq_peptide;Acc:NP_571015];
DIG0557_1492	1.91	1.91	1.91	
NM_201213.1_3prime500bases388	1.74	2.10	1.92	ENSDARG00000010316:glutaminyl-tRNA synthetase [Source:RefSeq_peptide;Acc:NP_957507];
AY576808.1_3prime500bases157	2.10	1.74	1.92	ENSDARG00000023532:pin2/trf1-interacting protein 1 [Source:RefSeq_peptide;Acc:NP_001013283];
NM_131641.1_3prime500bases408	1.93	1.93	1.93	ENSDARESTG00000016274
CF924885.1_3prime500bases240	2.03	1.84	1.93	ENSDARESTG00000025399 clone CB1014 5- similar to Q8wux2 Similar to RIKEN cDNA 2510006C20 gene
NM_152948.1_3prime500bases351	1.88	1.99	1.93	ENSDARG00000043658:cox sackie virus and adenovirus receptor [Source:RefSeq_peptide;Acc:NP_694480];
NM_199278.1_3prime500bases252	1.80	2.10	1.95	ENSDARESTG00000024671
DIG0046_445	1.95	1.95	1.95	ENSDARG00000010025:hypothetical protein LOC553218 [Source:RefSeq_peptide;Acc:NP_001020643];
NM_182940.2_3prime500bases403	2.12	1.80	1.96	ENSDARG00000036515
NM_212994.1_3prime500bases261	1.81	2.14	1.97	ENSDARESTG00000019878
NM_131362.1_3prime500bases419	2.00	2.00	2.00	ENSDARG00000039772:sine oculis homeobox homolog 3a [Source:RefSeq_peptide;Acc:NP_571437];
NM_212791.1_3prime500bases423	2.01	2.01	2.01	ENSDARG00000039429:adenosine kinase a (adka), mRNA [Source:RefSeq_dna;Acc:NM_212791];
NM_212761.1_2	2.01	2.01	2.01	ENSDARG00000009978:ictacalcin [Source:RefSeq_peptide;Acc:NP_997926];
NM_201468.1_3prime500bases429	2.04	2.04	2.04	ENSDARG00000003920:SET translocation (myeloid leukemia-associated) B [Source:RefSeq_peptide;Acc:NP_958876];
NM_001008581.1_3prime500bases149	1.83	2.26	2.05	ENSDARG00000040046:hypothetical protein LOC494038 [Source:RefSeq_peptide;Acc:NP_001008581];
NM_153668.3_3prime500bases276	2.25	1.84	2.05	ENSDARESTG00000010313
NM_201317.1_3prime500bases349	2.11	1.99	2.05	ENSDARG00000037773:RING1 and YY1 binding protein [Source:RefSeq_peptide;Acc:NP_958474];
NM_131229.1_3prime500bases431	2.06	2.06	2.06	ENSDARG00000005541:Wnt inhibitory factor 1 precursor (WIF-1). [Source:Uniprot/SWISSPROT;Acc:Q9W6F9];
NC_002333.2_3prime500bases20	1.84	2.28	2.06	Danio rerio mitochondrion, complete genome
NM_131267.1_3prime500bases432	2.07	2.07	2.07	ENSDARG00000036097:iroquois homeobox protein 3a [Source:RefSeq_peptide;Acc:NP_571342];
NM_131117.2_3prime500bases3	2.18	1.97	2.07	ENSDARG00000029263:Homeobox protein Hox-B3a (Hox-B3). [Source:Uniprot/SWISSPROT;Acc:O42368];
NM_200295.1_3prime500bases100	2.15	2.05	2.10	ENSDARG00000007279:golgi membrane protein SB140 [Source:RefSeq_peptide;Acc:NP_956589];
NM_194374.1_3prime500bases181	1.66	2.53	2.10	ENSDARG00000041217:exportin 6 [Source:RefSeq_peptide;Acc:NP_919355];
NM_001007364.1_3prime500bases393	2.21	2.02	2.12	ENSDARESTG00000011774 zgc:103652 (zgc:103652),
NM_131262.1_3prime500bases166	1.78	2.45	2.12	ENSDARG00000030110:Myoblast determination protein 1 homolog (Myogenic factor 1). [Source:Uniprot/SWISSPROT;Acc:Q90477];

NM_131875.1_3prime500bases0	2.14		2.14	
NM_131503.1_3prime500bases104	1.80	2.48	2.14	ENSDARG00000026534:Axin-1 (Axis inhibition protein 1). [Source:Uniprot/SWISSPROT;Acc:P57094];
NM_131311.1_3prime500bases274	2.16	2.16	2.16	ENSDARG00000014446:Homeobox protein Dlx2a (DLX-2). [Source:Uniprot/SWISSPROT;Acc:P50574];
NM_200159.1_3prime500bases279	2.17		2.17	ENSDARG00000008238:mannosidase, beta A, lysosomal [Source:RefSeq_peptide;Acc:NP_956453];
NM_201493.1_3prime500bases125	2.23		2.23	ENSDARG000000036291:nucleobindin 2a [Source:RefSeq_peptide;Acc:NP_958901];
NM_201329.1_3prime500bases116	1.65	2.83	2.24	ENSDARG000000034771:RAB13, member RAS oncogene family [Source:RefSeq_peptide;Acc:NP_958486];
NM_201496.1_3prime500bases203	2.19	2.34	2.26	ENSDARG000000031915:Hypoxia-inducible factor 1 alpha inhibitor (EC 1.14.11.16) (Hypoxia- inducible factor asparagine hydroxylase).
NM_200882.1_3prime500bases377	2.13	2.40	2.27	ENSDARG000000021140:poly A binding protein, cytoplasmic 1 a [Source:RefSeq_peptide;Acc:NP_957176];
NM_212815.1_3prime500bases352	2.27		2.27	ENSDARG000000026797:v-akt murine thymoma viral oncogene homolog 2, like [Source:RefSeq_peptide;Acc:NP_997980];
NM_214734.1_3prime500bases256	2.28		2.28	ENSDARG000000033971:paired mesoderm homeobox 1a [Source:RefSeq_peptide;Acc:NP_999899];
NM_001001402.1_3prime500bases397	2.57	2.01	2.29	ENSDARG000000043042:ectodermal-neural cortex (with BTB-like domain) [Source:RefSeq_peptide;Acc:NP_001001402];
NM_178297.2_3prime500bases120	1.56	3.02	2.29	ENSDARESTG000000020068
NM_001001399.1_3prime500bases370	2.30	2.29	2.29	ENSDARG000000005230:signal sequence receptor, beta [Source:RefSeq_peptide;Acc:NP_001001399];
NM_182878.1_3prime500bases422	2.32		2.32	ENSDARG000000013443:ATPase, H+ transporting, lysosomal, V1 subunit B, member a [Source:RefSeq_peptide;Acc:NP_878298];
CA854263.1_3prime500bases122	2.32	2.34	2.33	ENSDARG000000043457:Hypothetical protein (Fragment). [Source:Uniprot/SPTREMBL;Acc:Q5XJ10];
NM_001007038.1_3prime500bases269	2.42	2.29	2.35	ENSDARG000000044593:ATP-binding cassette, sub-family C (CFTR/MRP), member 4 (abcc4), mRNA [Source:RefSeq_dna;Acc:NM_001007038];
NM_213172.1_3prime500bases365	2.40	2.31	2.35	ENSDARG000000017602:cyclin G2 [Source:RefSeq_peptide;Acc:NP_998337];
NM_130947.1_3prime500bases310	2.36		2.36	ENSDARG000000040836:Wnt-4a protein precursor. [Source:Uniprot/SWISSPROT;Acc:P47793];
NM_199217.1_3prime500bases187	2.32	2.40	2.36	
DIG0565_1528	2.38		2.38	ENSDARG000000037493:hypothetical protein LOC553785 [Source:RefSeq_peptide;Acc:NP_001018583];
NM_001004578.1_3prime500bases336	2.38	2.37	2.38	ENSDARG000000014793:zgc:92331 [Source:RefSeq_peptide;Acc:NP_001004578];
NM_205750.1_3prime500bases420	2.41		2.41	ENSDARG000000004305:vang-like 1 (van gogh, Drosophila) [Source:RefSeq_peptide;Acc:NP_991313];
NM_131807.1_3prime500bases404	2.42		2.42	ENSDARG000000008434:bcl2-like [Source:RefSeq_peptide;Acc:NP_571882];
NM_213153.1_3prime500bases424	2.42		2.42	ENSDARG000000005464:deoxyribonuclease I-like 3 [Source:RefSeq_peptide;Acc:NP_998318];
NM_131077.1_3prime500bases386	2.42		2.42	ENSDARG000000008796:hairy-related 5 [Source:RefSeq_peptide;Acc:NP_571152];
NM_131120.1_3prime500bases395	2.44		2.44	ENSDARG000000014115:Homeobox protein Hox-B8a (Hox-B8). [Source:Uniprot/SWISSPROT;Acc:Q8AWZ0];
NM_131305.1_3prime500bases415	2.44		2.44	ENSDARG000000013125:Homeobox protein Dlx1a (DLX-1). [Source:Uniprot/SWISSPROT;Acc:Q98875];
NM_131881.1_3prime500bases266	2.46	2.43	2.44	ENSDARG000000002601:iroquois homeobox protein 7 [Source:RefSeq_peptide;Acc:NP_571956];
NM_201332.1_3prime500bases424	2.45		2.45	OTTDARG000000005626:si:ch211-150c22.4:Novel_CDS
NM_201587.1_3prime500bases206	2.14	2.78	2.46	
NM_199538.1_3prime500bases295	2.32	2.64	2.48	ENSDARG000000033768:hypothetical protein LOC321203 [Source:RefSeq_peptide;Acc:NP_955832];
NM_001002720.1_3prime500bases146	2.58	2.42	2.50	ENSDARG000000014013:lamin B receptor [Source:RefSeq_peptide;Acc:NP_001002720];
NM_199532.1_3prime500bases125	2.35	2.69	2.52	ENSDARG000000004402:ELOVL family member 6, elongation of long chain fatty acids [Source:RefSeq_peptide;Acc:NP_955826];
NM_213151.1_3prime500bases351	2.75	2.33	2.54	ENSDARG000000027860:glyoxalase 1 [Source:RefSeq_peptide;Acc:NP_998316];

DIG0387_631		2.54		2.54	
NM_199277.2_3prime500bases279		2.54		2.54	ENSDARESTG00000024128
NM_200106.1_3prime500bases20		2.58		2.58	ENSDARG00000012135:F-box and leucine-rich repeat protein 2 [Source:RefSeq_peptide;Acc:NP_956400];
NM_131682.2_3prime500bases18		2.73	2.54	2.63	ENSDARG00000041945:Aminolevulinate, delta-, synthetase 2 (Fragment). [Source:Uniprot/SPTREMBL;Acc:Q5RIZ3];
NM_131670.1_3prime500bases344		2.64		2.64	ENSDARG00000042837:ATPase, Na+/K+ transporting, beta 3b polypeptide [Source:RefSeq_peptide;Acc:NP_571745];
NM_131450.2_3prime500bases260		2.83	2.52	2.68	ENSDARG00000020711:Ribonucleoside-diphosphate reductase M2 chain (EC 1.17.4.1) (Ribonucleotide reductase protein R2 class I).
NM_131506.1_3prime500bases351		2.68		2.68	ENSDARG00000005150:T-box 20 [Source:RefSeq_peptide;Acc:NP_571581];
NM_131323.1_3prime500bases422		2.05	3.41	2.73	ENSDARG00000042291:Homeobox protein Dlx6a (DLX-6). [Source:Uniprot/SWISSPROT;Acc:Q98877];
NM_131679.3_3prime500bases168		2.07	3.47	2.77	ENSDARG00000006640:eomesodermin homolog [Source:RefSeq_peptide;Acc:NP_571754];
NM_131461.1_3prime500bases418		2.79		2.79	
NM_130958.1_3prime500bases293	1.64	3.44	3.38	2.82	ENSDARG00000004232:deltaB [Source:RefSeq_peptide;Acc:NP_571033];
NM_153669.2_3prime500bases139		2.39	3.46	2.92	ENSDARG00000019137:translocating chain-associating membrane protein [Source:RefSeq_peptide;Acc:NP_705955];
NM_152956.1_3prime500bases377		3.26	2.62	2.94	ENSDARG00000034785:dachshund b [Source:RefSeq_peptide;Acc:NP_694488];
NM_173283.3_3prime500bases165		2.25	3.76	3.01	ENSDARG00000014947:insulin-like growth factor binding protein 1 [Source:RefSeq_peptide;Acc:NP_775390];
NM_130975.1_3prime500bases429		3.04		3.04	ENSDARG00000036192:Paired-like homeodomain transcription factor 2a. [Source:Uniprot/SPTREMBL;Acc:Q568C4];
NM_198911.1_3prime500bases435		3.05		3.05	ENSDARG00000020235:septin 9 [Source:RefSeq_peptide;Acc:NP_944593];
NM_182884.1_3prime500bases422		3.16	2.98	3.07	ENSDARG00000025302:DIX domain containing 1 [Source:RefSeq_peptide;Acc:NP_878304];
NM_001007371.1_3prime500bases41		3.21	2.93	3.07	ENSDARG00000032640:zgc:101900 (zgc:101900), mRNA [Source:RefSeq_dna;Acc:NM_001007371];
NM_131863.1_3prime500bases281		3.09		3.09	
NM_153673.1_3prime500bases417		3.26	2.94	3.10	ENSDARG00000008433
NM_213556.3_3prime500bases194		3.01	3.19	3.10	ENSDARG00000036470:jun B proto-oncogene [Source:RefSeq_peptide;Acc:NP_998721];
zfp361_3prime500bases67		3.30	2.95	3.12	ENSDARG00000016154
NM_200551.1_3prime500bases42		3.68	2.61	3.15	ENSDARG00000020143:phenylalanine hydroxylase [Source:RefSeq_peptide;Acc:NP_956845];
NM_173224.1_3prime500bases147		2.96	3.34	3.15	ENSDARG00000033412:Epididymal secretory protein E1 precursor (Niemann Pick type C2 protein homolog) (16.5 kDa secretory protein).
NM_201326.2_3prime500bases287		2.71	3.61	3.16	ENSDARG000000037516
NM_131306.1_3prime500bases355		3.31	3.07	3.19	ENSDARG00000042296:Homeobox protein Dlx5a (DLX-4). [Source:Uniprot/SWISSPROT;Acc:P50576];
NM_212763.1_3prime500bases351					
DIG0174_373	1.92	4.13	3.79	3.28	ENSDARG00000027345:epithelial V-like antigen 1 [Source:RefSeq_peptide;Acc:NP_997928];
NM_199276.1_3prime500bases122		3.81	2.90	3.36	ENSDARG00000028462:H1 histone family, member X [Source:RefSeq_peptide;Acc:NP_954970];
NM_200105.1_3prime500bases210		3.13	3.59	3.36	ENSDARG00000026862:fused toes homolog [Source:RefSeq_peptide;Acc:NP_956399];
NM_183071.1_3prime500bases384		3.55	3.24	3.39	ENSDARG00000040344:linker histone H1M [Source:RefSeq_peptide;Acc:NP_898894];
NM_199519.2_3prime500bases22		2.76	4.04	3.40	
NM_212796.1_3prime500bases231		3.60	3.23	3.41	ENSDARESTG00000020670
NM_131687.1_3prime500bases424		3.43		3.43	ENSDARG00000007739:ATPase, Na+/K+ transporting, alpha 1a.2 polypeptide [Source:RefSeq_peptide;Acc:NP_571762];
NM_178298.2_3prime500bases266		3.78	3.08	3.43	ENSDARESTG00000011008

NM_199522.1_3prime500bases430	3.50		3.50	ENSDARG00000034539:ras homolog gene family, member E [Source:RefSeq_peptide;Acc:NP_955816];
NM_001004602.1_3prime500bases143	3.28	3.73	3.50	zgc:86701 (zgc:86701),
NM_200109.1_3prime500bases196	3.42	3.61	3.52	ENSDARG000000039527
NM_181331.3_3prime500bases55	3.64		3.64	ENSDARG00000043483:orthodenticle homolog 5 [Source:RefSeq_peptide;Acc:NP_851848];
NM_130970.1_3prime500bases144	4.44	3.30	3.87	ENSDARG00000003971:Insulin gene enhancer protein ISL-2 (Islet-2). [Source:Uniprot/SWISSPROT;Acc:P53406];
NM_214723.1_3prime500bases352	3.89		3.89	ENSDARG00000039007:enolase 3, (beta, muscle) [Source:RefSeq_peptide;Acc:NP_999888];
NM_131537.2_3prime500bases375	3.91		3.91	ENSDARG00000005395:Homeobox protein Hox-B5b (Hox-B5-like) (Zf-54). [Source:Uniprot/SWISSPROT;Acc:P09013];
NM_201309.1_3prime500bases192	4.17	3.98	4.08	
NM_153666.1_3prime500bases311	4.07	4.36	4.22	ENSDARG00000011785:T-box 24 [Source:RefSeq_peptide;Acc:NP_705952];
NM_199431.1_3prime500bases312	4.87	3.88	4.37	ENSDARG00000041703:ribosome binding protein 1 homolog (dog) [Source:RefSeq_peptide;Acc:NP_955463];
NM_152955.1_3prime500bases423	4.95		4.95	ENSDARESTG00000012272
NM_181735.1_3prime500bases304	3.84	6.44	5.14	ENSDARG00000019659:forkhead box I1 [Source:RefSeq_peptide;Acc:NP_859424];
NM_213241.1_3prime500bases265	5.37		5.37	ENSDARG00000011870:sp8 transcription factor [Source:RefSeq_peptide;Acc:NP_998406];
NM_205569.1_3prime500bases115	5.08	6.20	5.64	ENSDARG00000031683:v-fos FBJ murine osteosarcoma viral oncogene homolog [Source:RefSeq_peptide;Acc:NP_991132];
NM_212654.1_3prime500bases404	5.96	5.77	5.86	ENSDARG00000035986:protein tyrosine phosphatase, non-receptor type 2, like [Source:RefSeq_peptide;Acc:NP_997819];
NM_201316.1_3prime500bases415	5.98		5.98	ENSDARG00000035913:tyrosyl-tRNA synthetase [Source:RefSeq_peptide;Acc:NP_958473];
NM_131283.1_3prime500bases432	6.46		6.46	ENSDARG00000039228:forkhead box B1.1 [Source:RefSeq_peptide;Acc:NP_571358];
NM_173218.1_3prime500bases208	3.26	10.85	7.06	ENSDARG00000008937:neogenin 1 [Source:RefSeq_peptide;Acc:NP_775325];
NM_131571.1_3prime500bases149	7.37		7.37	ENSDARG00000036096:MAD homolog 3 [Source:RefSeq_peptide;Acc:NP_571646];
NM_180965.3_3prime500bases316	8.37	9.43	8.90	ENSDARESTG00000019581
NM_131101.2_3prime500bases423	11.89		11.89	