

Appendix 1

Genes in *rab5a2* morpholino injected embryos that changed more than 3 fold compared to controls at the 30% epiboly stage

| Gene Name | Fold Change | Av. | Description | | |
|----------------------------------|-------------|------|-------------|---|--|
| NM_131058.1_3prime500bases378 | | 0.13 | 0.13 | ENSDARG00000007329:T-box gene 16 [Source:RefSeq_peptide;Acc:NP_571133]; | |
| NM_194392.1_3prime500bases194 | 0.20 | 0.17 | 0.12 | 0.16 | ENSDARG00000040216:trophoblast glycoprotein-like [Source:RefSeq_peptide;Acc:NP_919373]; |
| NM_131342.2_3prime500bases296 | | 0.18 | 0.19 | 0.19 | ENSDARG00000019995:bone morphogenetic protein 4 [Source:RefSeq_peptide;Acc:NP_571417]; |
| NM_001001950.1_3prime500bases137 | | 0.22 | | 0.22 | ENSDARG00000009849:zic family member 3 heterotaxy 1 (odd-paired homolog, Drosophila) [Source:RefSeq_peptide;Acc:NP_001001950]; |
| NM_131509.1_3prime500bases430 | | 0.22 | | 0.22 | keratin 4 |
| NM_213118.1_3prime500bases147 | | 0.19 | 0.28 | 0.23 | ENSDARG00000014243:SRY-box containing gene 2 [Source:RefSeq_peptide;Acc:NP_998283]; |
| NM_131690.1_3prime500bases388 | | 0.25 | | 0.25 | ENSDARG00000019856:ATPase, Na+/K+ transporting, alpha 1b polypeptide [Source:RefSeq_peptide;Acc:NP_571765]; |
| NM_131052.1_3prime500bases417 | | 0.27 | 0.24 | 0.26 | ENSDARG00000006939:T-box transcription factor TBX6 (T-box protein 6). [Source:Uniprot/SWISSPROT;Acc:P79742]; |
| NM_001007454.1_3prime500bases299 | | 0.25 | 0.28 | 0.26 | ENSDARG00000027699:zgc:101612 [Source:RefSeq_peptide;Acc:NP_001007455]; |
| NM_131281.2_3prime500bases201 | | 0.26 | 0.28 | 0.27 | ENSDARG00000003399:fibroblast growth factor 8 [Source:RefSeq_peptide;Acc:NP_571356]; |
| NM_001003875.1_3prime500bases285 | | 0.29 | 0.27 | 0.28 | ENSDARG00000037931:U1 small nuclear ribonucleoprotein polypeptide A [Source:RefSeq_peptide;Acc:NP_001003875]; |
| NM_198876.1_3prime500bases405 | | 0.29 | | 0.29 | ENSDARG00000018971:UDP-GlcNAc:betaGal beta-1,3-N-acetylglucosaminyltransferase 5 [Source:RefSeq_peptide;Acc:NP_942577]; |
| DIG0410_1903 | | 0.30 | | 0.30 | |
| NM_001002332.1_3prime500bases404 | | 0.26 | 0.34 | 0.30 | ENSDARG00000007024:zgc:92414 [Source:RefSeq_peptide;Acc:NP_001002332]; |
| NM_131108.1_3prime500bases390 | | 0.31 | 0.30 | 0.30 | ENSDARG00000036830:type I cytokeratin, enveloping layer [Source:RefSeq_peptide;Acc:NP_571182]; |
| NM_131885.2_3prime500bases167 | | 0.32 | | 0.32 | ENSDARG00000036074:CCAAT/enhancer binding protein alpha [Source:RefSeq_peptide;Acc:NP_571960]; |
| NM_131109.1_3prime500bases25 | | 0.32 | | 0.32 | ENSDARG00000036292:caudal type homeo box transcription factor 4 [Source:RefSeq_peptide;Acc:NP_571184]; |
| NM_201513.1_3prime500bases433 | | 0.32 | | 0.32 | ENSDARG00000042539:tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein, theta polypeptide |
| NM_130973.1_3prime500bases361 | | 0.30 | 0.36 | 0.33 | ENSDARESTG00000005532 chordin |
| NM_182871.1_3prime500bases170 | | 0.33 | | 0.33 | ENSDARG00000037677:fibroblast growth factor 24 [Source:RefSeq_peptide;Acc:NP_878291]; |
| NM_212580.1_3prime500bases426 | | 0.33 | | 0.33 | ENSDARESTG00000023644 methyl-CpG binding domain protein 3b |
| NM_130940.1_3prime500bases425 | | 0.32 | 0.37 | 0.34 | ENSDARG00000009737:bonnie and clyde [Source:RefSeq_peptide;Acc:NP_571015]; |
| NM_131207.1_3prime500bases102 | | 0.33 | 0.35 | 0.34 | ENSDARG00000007944:LIM homeobox 1b [Source:RefSeq_peptide;Acc:NP_571282]; |
| NM_183074.1_3prime500bases334 | | 0.37 | 0.32 | 0.35 | ENSDARG00000042503:ventrally expressed dharma/bozozok antagonist [Source:RefSeq_peptide;Acc:NP_898897]; |
| NM_001012246.1_3prime500bases23 | | 0.35 | | 0.35 | ENSDARG00000035748:fibroblast growth factor 19 [Source:RefSeq_peptide;Acc:NP_001012246]; |
| NM_200159.1_3prime500bases291 | | 0.36 | | 0.36 | ENSDARG00000008238:mannosidase, beta A, lysosomal [Source:RefSeq_peptide;Acc:NP_956453]; |
| NM_131209.1_3prime500bases394 | | 0.41 | 0.32 | 0.36 | protocadherin 8 |
| NM_201316.1_3prime500bases415 | | 0.37 | | 0.37 | ENSDARG00000035913:tyrosyl-tRNA synthetase [Source:RefSeq_peptide;Acc:NP_958473]; |
| NM_174861.2_3prime500bases259 | | 0.41 | 0.34 | 0.37 | ENSDARG00000019268:gastrulation brain homeobox 1 [Source:RefSeq_peptide;Acc:NP_777286]; |

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| NM_200228.1_3prime500bases99 | 0.37 | 0.37 | ENSDARG00000013973:peroxisomal biogenesis factor 3 [Source:RefSeq_peptide;Acc:NP_956522]; |
| NM_173288.1_3prime500bases371 | 0.38 | 0.38 | 0.38 ENSDARG00000040666:mki67 (FHA domain) interacting nucleolar phosphoprotein (human) - like [Source:RefSeq_peptide;Acc:NP_775395]; |
| NM_001003774.1_3prime500bases342 | 0.32 | 0.45 | 0.39 ENSDARG00000015123:zgc:101000 [Source:RefSeq_peptide;Acc:NP_001003774]; |
| NM_201576.1_3prime500bases131 | 0.43 | 0.36 | 0.39 ENSDARG00000034351:transgelin 2 [Source:RefSeq_peptide;Acc:NP_963870]; |
| NM_212602.1_3prime500bases425 | 0.39 | 0.39 | ENSDARG00000011127:AHA1, activator of heat shock 90kDa protein ATPase homolog 1, like [Source:RefSeq_peptide;Acc:NP_997767]; |
| NM_131609.1_3prime500bases422 | 0.40 | 0.40 | ENSDARG00000017917:hairy and enhancer of split related-7 [Source:RefSeq_peptide;Acc:NP_571684]; |
| NM_201514.1_3prime500bases375 | 0.38 | 0.41 | 0.40 ENSDARG00000037012:solute carrier family 3, member 2 like [Source:RefSeq_peptide;Acc:NP_958922]; |
| NM_131700.1_3prime500bases289 NM_130955.1_3prime500bases324 DIG0402_1561 | 0.38 0.39 | 0.41 0.45 | 0.40 ENSDARG00000017164:ventral expressed homeobox [Source:RefSeq_peptide;Acc:NP_571775]; 0.40 ENSDARESTG00000012353 deltaD (dld), |
| NM_131320.1_3prime500bases353 | 0.39 | 0.41 | 0.40 ENSDARG00000023188:lymphocyte cytosolic plastin 1 [Source:RefSeq_peptide;Acc:NP_571395]; |
| BC046031.1_3prime500bases262 | 0.43 | 0.38 | 0.40 ENSDARG00000029074 ubiquitin-activating enzyme E1-domain containing 1, mRNA , containing frame-shift errors |
| NM_130956.1_3prime500bases123 | 0.42 | 0.39 | 0.40 ENSDARG00000004256:Wnt-11 protein precursor. [Source:Uniprot/SWISSPROT;Acc:O73864]; |
| NM_201495.1_3prime500bases221 | 0.32 | 0.48 | 0.40 RAB14 |
| NM_207184.1_3prime500bases429 | 0.40 | 0.40 | ENSDARG00000009510:iroquois homeobox protein 1, a isoform 1 [Source:RefSeq_peptide;Acc:NP_997067]; |
| CF673281.1_3prime500bases425 | 0.43 | 0.39 | 0.41 ENSDARESTG00000018874 CB967 5- similar to Filamin A |
| NM_205732.1_3prime500bases414 | 0.41 | 0.41 | glutamate-ammonia ligase |
| NM_212567.1_3prime500bases8 | 0.42 | 0.42 | ENSDARG00000024204:minichromosome maintenance protein 3 [Source:RefSeq_peptide;Acc:NP_997732]; |
| NM_152986.1_3prime500bases147 | 0.42 | 0.42 | ENSDARG00000044356:tumor protein p73-like isoform alpha 1 [Source:RefSeq_peptide;Acc:NP_694518]; |
| NM_001001811.1_3prime500bases418 | 0.42 | 0.42 | ENSDARG00000036440:SRY-box containing gene 3 [Source:RefSeq_peptide;Acc:NP_001001811]; |
| NM_205567.1_3prime500bases270 | 0.43 | 0.43 | ENSDARG00000006603:cysteine and glycine-rich protein 1 [Source:RefSeq_peptide;Acc:NP_991130]; |
| NM_131116.2_3prime500bases13 | 0.43 | 0.43 | ENSDARG00000000175:Homeobox protein Hox-B2a (Hox-B2). [Source:Uniprot/SWISSPROT;Acc:O42367]; |
| DIG0203_403 | 0.43 | 0.43 | |
| DIG0395_973 | 0.43 | 0.43 | |
| NM_198817.1_3prime500bases426 | 0.53 | 0.34 | 0.43 ENSDARESTG00000016981 starmaker (stm), |
| NM_214722.1_3prime500bases256 | 0.45 | 0.41 | 0.43 ENSDARG00000018806:cathepsin C [Source:RefSeq_peptide;Acc:NP_999887]; |
| NM_130908.1_3prime500bases107 | 0.43 | 0.44 | 0.43 OTTDARG00000002166:zgc:55628:Novel_CDS |
| BU670752.1_34 | 0.44 | 0.44 | ENSDARG00000039072 Similar to ectoplacental cone, invasive trophoblast giant cells, extraembryonic ectoderm and chorion sequence 3, |
| NM_001003501.1_3prime500bases284 | 0.43 | 0.44 | 0.44 ENSDARG00000012341:zgc:92451 [Source:RefSeq_peptide;Acc:NP_001003501]; |
| NM_131882.2_3prime500bases379 | 0.40 | 0.48 | 0.44 ENSDARG00000022476 chemokine (C-X-C motif) receptor 4a (cxcr4a) |
| NM_131163.1_3prime500bases430 | 0.44 | 0.44 | ENSDARG00000039694:Beta-2-microglobulin precursor. [Source:Uniprot/SWISSPROT;Acc:Q04475]; |
| NM_131884.2_3prime500bases139 | 0.46 | 0.42 | 0.44 ENSDARG00000045369:CCAAT/enhancer binding protein beta [Source:RefSeq_peptide;Acc:NP_571959]; |
| NM_201493.1_3prime500bases125 | 0.44 | 0.44 | ENSDARG00000036291:nucleobindin 2a [Source:RefSeq_peptide;Acc:NP_958901]; |
| DIG0109_1354 | 0.45 | 0.45 | ENSDARG00000054161:fibroblast growth factor receptor 4 [Source:RefSeq_peptide;Acc:NP_571505]; |

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| NM_131110.1_3prime500bases292 | 0.41 | 0.49 | 0.45 | ENSDARG00000011166:Carbonic anhydrase (EC 4.2.1.1) (Carbonate dehydratase). [Source:Uniprot/SWISSPROT;Acc:Q92051]; |
| NM_200659.1_3prime500bases358 | 0.45 | | 0.45 | ENSDARG00000025948:mutL homolog 1, colon cancer, nonpolyposis type 2 [Source:RefSeq_peptide;Acc:NP_956953]; |
| NM_131861.1_3prime500bases69 | 0.50 | 0.41 | 0.45 | ENSDARG00000030289:Jagged-1a precursor (Jagged1a) (Jagged1). [Source:Uniprot/SWISSPROT;Acc:Q90Y57]; |
| NM_001002717.1_3prime500bases329 | 0.51 | 0.41 | 0.46 | ENSDARG00000010206:p21-activated kinase 2 [Source:RefSeq_peptide;Acc:NP_001002717]; |
| NM_131162.1_3prime500bases301 | 0.48 | 0.45 | 0.46 | ENSDARG00000009905:Brachyury protein homolog (T protein homolog) (T-box protein ZFT) (ZF- T) (No tail protein). |
| CF673253.1_3prime500bases193 | 0.46 | | 0.46 | ENSDARESTG00000008362 CB894 5- similar to Nogo-66 receptor homolog-1, mRNA sequence |
| NM_152980.1_3prime500bases185 | 0.46 | | 0.46 | ENSDARG00000031855:macrophage stimulating 1 (hepatocyte growth factor-like) [Source:RefSeq_peptide;Acc:NP_694512]; |
| NM_173244.1_3prime500bases425 | 0.47 | | 0.47 | ENSDARG00000024904:TAL1 (SCL) interrupting locus like [Source:RefSeq_peptide;Acc:NP_775351]; |
| CF569085.1_3prime500bases370 | 0.47 | | 0.47 | ENSDARG00000020386 CB939 5- similar to ATP-binding cassette transporter 1 |
| NM_131287.2_3prime500bases377 | 0.40 | 0.55 | 0.47 | ENSDARG00000041345:SRY-box 17 [Source:RefSeq_peptide;Acc:NP_571362]; |
| NM_130946.1_3prime500bases316 | 0.48 | 0.47 | 0.47 | ENSDARG00000010355:wnt8-like protein 2 [Source:RefSeq_peptide;Acc:NP_001018637]; |
| NM_131668.3_3prime500bases390 | 0.48 | | 0.48 | ENSDARG00000013144:ATPase, Na+/K+ transporting, beta 1a polypeptide [Source:RefSeq_peptide;Acc:NP_571743]; |
| NM_212612.1_3prime500bases264 | 0.47 | 0.48 | 0.48 | DEAD (Asp-Glu-Ala-Asp) box polypeptide 5 (ddx5), |
| NM_214808.1_3prime500bases249 | 0.49 | 0.47 | 0.48 | ENSDARG00000023520:Fibroblast growth factor-17b precursor (FGF-17b). [Source:Uniprot/SWISSPROT;Acc:Q6SJP8]; |
| NM_173261.1_3prime500bases339 | 0.49 | 0.48 | 0.48 | ENSDARG00000010948:kinesin family member 11 [Source:RefSeq_peptide;Acc:NP_775368]; |
| CB333812.1_3prime500bases133 | 0.45 | 0.52 | 0.48 | cDNA clone CB159 5- similar to Epiplakin |
| DIG0345_1024 | 0.48 | | 0.48 | ENSDARG00000040815:hypothetical protein LOC325958 [Source:RefSeq_peptide;Acc:NP_956027]; |
| NM_131557.1_3prime500bases429 | 0.49 | | 0.49 | ENSDARG00000035831:GATA-binding protein 6 [Source:RefSeq_peptide;Acc:NP_571632]; |
| NM_194371.2_3prime500bases155 | 0.51 | 0.46 | 0.49 | ENSDARG00000010124:Sp5 transcription factor-like [Source:RefSeq_peptide;Acc:NP_919352]; |
| CD808440.1_3prime500bases377 | 0.49 | | 0.49 | gastrula stage cDNA library Danio rerio cDNA clone CB473 5 |
| NM_173221.2_3prime500bases432 | 0.49 | | 0.49 | ENSDARG00000013839:aldehyde dehydrogenase 3 family, member D1 [Source:RefSeq_peptide;Acc:NP_775328]; |
| NM_001005390.1_3prime500bases12 | 0.41 | 0.57 | 0.49 | ENSDARG00000035329:calpain, small subunit 1 [Source:RefSeq_peptide;Acc:NP_001005390]; |
| NM_131025.2_3prime500bases229 | 0.42 | 0.56 | 0.49 | ENSDARG00000035750:G1/S-specific cyclin D1. [Source:Uniprot/SWISSPROT;Acc:Q90459]; |
| NM_201124.1_3prime500bases423 | 0.49 | | 0.49 | ENSDARG00000011545:arrestin, beta 2 [Source:RefSeq_peptide;Acc:NP_957418]; |
| NM_131414.1_3prime500bases435 | 0.50 | | 0.50 | ENSDARG00000040346 eph receptor B4a (ephb4a), |
| NM_212770.1_3prime500bases190 | 0.50 | 0.49 | 0.50 | ENSDARG00000005185:carboxypeptidase N, polypeptide 1 [Source:RefSeq_peptide;Acc:NP_997935]; |
| NM_131027.1_3prime500bases413 | 0.50 | | 0.50 | ENSDARG00000002952:smoothed homolog [Source:RefSeq_peptide;Acc:NP_571102]; |
| NM_131092.1_3prime500bases291 | 0.43 | 0.57 | 0.50 | ENSDARG00000035095:one-eyed pinhead [Source:RefSeq_peptide;Acc:NP_571167]; |
| DIG0366_880 | 0.50 | | 0.50 | ENSDARG00000056950:hypothetical protein LOC550602 [Source:RefSeq_peptide;Acc:NP_001017903]; |
| AB097826.1_3prime500bases19 | 0.51 | | 0.51 | ENSDARG00000002403:Hypothetical protein YF-9 (Fragment). [Source:Uniprot/SPTREMBL;Acc:Q7T2W2]; |
| NM_201475.1_3prime500bases382 | 0.47 | 0.55 | 0.51 | ENSDARG00000031495:SET translocation (myeloid leukemia-associated) A [Source:RefSeq_peptide;Acc:NP_958883]; |
| NM_131245.1_3prime500bases275 | 0.48 | 0.53 | 0.51 | inhibitor of DNA binding 6 |
| NM_001004578.1_3prime500bases336 | 0.55 | 0.47 | 0.51 | ENSDARG00000014793:zgc:92331 [Source:RefSeq_peptide;Acc:NP_001004578]; |

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| NM_199211.1_3prime500bases380 | 0.54 | 0.48 | 0.51 | ENSDARG00000030700:CTP synthase [Source:RefSeq_peptide;Acc:NP_954681]; |
| NM_199429.1_3prime500bases154 | 0.51 | | 0.51 | ENSDARG00000038097:phosphatidylinositol glycan, class Q [Source:RefSeq_peptide;Acc:NP_955461]; |
| NM_201586.1_3prime500bases423 | 0.47 | 0.56 | 0.51 | dapper homolog 2, antagonist of beta-catenin |
| NM_131300.1_3prime500bases423 | 0.51 | | 0.51 | ENSDARG00000011956:Homeobox protein Dlx4a (DLX-8). [Source:Uniprot/SWISSPROT;Acc:Q98879]; |
| NM_131221.1_3prime500bases428 | 0.51 | | 0.51 | ENSDARG00000015790:ATPase, Na+/K+ transporting, beta 3a polypeptide [Source:RefSeq_peptide;Acc:NP_571296]; |
| NM_131114.1_3prime500bases186 | 0.53 | 0.50 | 0.52 | ENSDARG00000036141 even-skipped-like1 (eve1) |
| CF673239.1_3prime500bases30 | 0.49 | 0.54 | 0.52 | ENSDARESTG00000011746 CB996 5- similar to Poly [ADP-ribose] polymerase-2 (|
| NM_131560.1_3prime500bases60 | 0.47 | 0.56 | 0.52 | ENSDARG00000027205:mix-type homeobox gene 1 [Source:RefSeq_peptide;Acc:NP_571635]; |
| NM_201331.1_3prime500bases423 | 0.52 | | 0.52 | ENSDARG00000012369:retinol dehydrogenase 10 [Source:RefSeq_peptide;Acc:NP_958488]; |
| NM_194369.1_3prime500bases417 | 0.52 | | 0.52 | ENSDARG00000037563:CD99 antigen-like 2 [Source:RefSeq_peptide;Acc:NP_919350]; |
| NM_212777.1_3prime500bases392 | 0.53 | | 0.53 | ENSDARESTG00000022602 bromodomain containing 8 (brd8), |
| NM_131415.1_3prime500bases4 | 0.52 | 0.54 | 0.53 | ENSDARG00000017354:eph-like receptor tyrosine kinase 6 [Source:RefSeq_peptide;Acc:NP_571490]; |
| NM_213047.1_3prime500bases244 | 0.49 | 0.57 | 0.53 | ENSDARG00000037109:PWP2 periodic tryptophan protein homolog [Source:RefSeq_peptide;Acc:NP_998212]; |
| NM_131205.1_3prime500bases434 | 0.53 | | 0.53 | ENSDARG00000029079 ets related protein erm (erm), |
| nomo_3prime500bases177 | 0.53 | | 0.53 | ENSDARG00000034683 |
| NM_131637.1_3prime500bases240 | 0.56 | 0.51 | 0.54 | ENSDARG00000014047:Claudin-like protein ZF4A22 (Claudin-7). [Source:Uniprot/SWISSPROT;Acc:Q9YH92]; |
| NM_131146.2_3prime500bases230 | 0.54 | | 0.54 | ENSDARG00000033999:Cytochrome P450 26A1 (EC 1.14.-.-) (Retinoic acid-metabolizing cytochrome) (P450RAI) (Retinoic acid 4-hydroxylase). |
| NM_205585.1_3prime500bases175 | 0.54 | | 0.54 | ENSDARG00000035521:secreted frizzled-related protein 1 [Source:RefSeq_peptide;Acc:NP_991148]; |
| NM_199558.1_3prime500bases365 | 0.54 | | 0.54 | ENSDARG00000027109:zinc finger RNA binding protein [Source:RefSeq_peptide;Acc:NP_955852]; |
| NM_130960.1_3prime500bases226 | 0.56 | 0.52 | 0.54 | ENSDARG00000019920:lefty1 [Source:RefSeq_peptide;Acc:NP_571035]; |
| NM_131851.1_3prime500bases133 | 0.51 | 0.57 | 0.54 | ENSDARG00000041341:SRY-box containing gene 32 [Source:RefSeq_peptide;Acc:NP_571926]; |
| NM_214692.1_3prime500bases406 | 0.53 | 0.56 | 0.54 | membrane protein, palmitoylated 1 (mpp1), |
| DIG0389_910 | 0.54 | | 0.54 | |
| NM_131482.1_3prime500bases380 | 0.60 | 0.49 | 0.55 | ENSDARG00000005645:roundabout homolog 3 [Source:RefSeq_peptide;Acc:NP_571557]; |
| NM_200099.1_3prime500bases116 | 0.60 | 0.49 | 0.55 | ENSDARG00000012000:dynein light chain (10.3 kD) (dlc-1) [Source:RefSeq_peptide;Acc:NP_956393]; |
| NM_200104.1_3prime500bases385 | 0.55 | | 0.55 | ENSDARG00000036675:heterogeneous nuclear ribonucleoprotein A1 [Source:RefSeq_peptide;Acc:NP_956398]; |
| AY648733.1_3prime500bases414 | 0.51 | 0.59 | 0.55 | ENSDARG00000045321:DNA polymerase alpha (Fragment). [Source:Uniprot/SPTREMBL;Acc:Q6DRM6]; |
| NM_001002312.1_3prime500bases360 | 0.55 | | 0.55 | ENSDARG00000041870:intraflagellar transport 172 [Source:RefSeq_peptide;Acc:NP_001002312]; |
| AY216588.1_3prime500bases143 | 0.56 | | 0.56 | ENSDARG00000023220:Selenoprotein T2 (Fragment). [Source:Uniprot/SPTREMBL;Acc:Q802G4]; |
| CB923492.1_3prime500bases387 | 0.57 | 0.54 | 0.56 | ENSDARG00000004713:hypothetical protein LOC550434 [Source:RefSeq_peptide;Acc:NP_001017739]; |
| NM_131227.1_3prime500bases133 | 0.56 | | 0.56 | ENSDARG00000043071:Retinal homeobox protein Rx3. [Source:Uniprot/SWISSPROT;Acc:O42358]; |
| NM_201452.1_3prime500bases308 | 0.56 | | 0.56 | ENSDARG00000009484:ADP-ribosylation factor 1 [Source:RefSeq_peptide;Acc:NP_958860]; |
| NM_131450.2_3prime500bases260 | 0.58 | 0.54 | 0.56 | ENSDARG00000020711:Ribonucleoside-diphosphate reductase M2 chain (EC 1.17.4.1) (Ribonucleotide reductase protein R2 class I). |

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| DIG0121_607 | 0.56 | 0.56 | ENSDARG00000017320:F11 receptor [Source:RefSeq_peptide;Acc:NP_001004667]; |
| NM_131455.1_3prime500bases385 | 0.56 | 0.56 | ENSDARG00000014017:Ribonucleoside-diphosphate reductase large subunit (Ribonucleoside-diphosphate reductase M1 subunit) |
| BQ826572.1_3prime500bases187 | 0.57 | 0.57 | cDNA clone CB349 5- similar to Complement component C7 |
| DIG0349_1819 | 0.57 | 0.57 | |
| NM_201463.1_3prime500bases130 | 0.57 | 0.57 | ENSDARG00000022232:peter pan homolog [Source:RefSeq_peptide;Acc:NP_958871]; |
| DIG0099_2026 | 0.57 | 0.57 | |
| DIG0346_877 | 0.57 | 0.57 | ENSDARG00000021607:Igln1 [Source:RefSeq_peptide;Acc:NP_001003851]; |
| DIG0131_1438 | 0.57 | 0.57 | ENSDARG00000058538:hypothetical protein LOC323048 [Source:RefSeq_peptide;Acc:NP_997799]; |
| CF673237.1_3prime500bases83 | 0.57 | 0.57 | ENSDARG00000007781 CB994 5- similar to P70193 Membrane glycoprotein |
| NM_131291.1_3prime500bases223 | 0.57 | 0.57 | fibroblast growth factor 3 (fgf3) |
| NM_131098.1_3prime500bases249 | 0.59 | 0.57 | 0.58 ENSDARG00000040295:Apolipoprotein Eb precursor (Apo-Eb). [Source:Uniprot/SWISSPROT;Acc:O42364]; |
| AJ494837.1_3prime500bases199 | 0.50 | 0.66 | 0.58 ENSDARG00000036558:Collagen XVIII (Fragment). [Source:Uniprot/SPTREMBL;Acc:Q8AWC6]; |
| NM_212609.1_3prime500bases159 | 0.58 | 0.58 | ENSDARESTG00000014051 guanine nucleotide binding protein (G protein), beta polypeptide 1 (gnb1), |
| NM_199547.1_3prime500bases139 | 0.62 | 0.55 | 0.58 ENSDARG00000029252:Sjogren syndrome antigen B (autoantigen La) [Source:RefSeq_peptide;Acc:NP_955841]; |
| NM_198871.1_3prime500bases153 | 0.60 | 0.57 | 0.59 zgc:63569 (zgc:63569), |
| BC075970.1_3prime500bases424 | 0.59 | 0.59 | ENSDARG00000006427:Intestinal fatty acid-binding protein. [Source:Uniprot/SPTREMBL;Acc:Q8AX65]; |
| NM_207048.1_3prime500bases204 | 0.60 | 0.57 | 0.59 ENSDARESTG00000012052 cyclin F (ccnf), |
| NM_131066.1_3prime500bases239 | 0.59 | 0.59 | ENSDARG00000044163:snail homolog 1a [Source:RefSeq_peptide;Acc:NP_571141]; |
| NM_200111.1_3prime500bases156 | 0.59 | 0.59 | ENSDARG00000017748:hypothetical protein LOC378998 [Source:RefSeq_peptide;Acc:NP_956405]; |
| DIG0401_1450 | 0.59 | 0.59 | ENSDARG00000002336:Delta-like protein C precursor (DeltaC protein) (delC). [Source:Uniprot/SWISSPROT;Acc:Q9IAT6]; |
| NM_200080.2_3prime500bases345 | 0.56 | 0.63 | 0.59 ENSDARG00000029086:keratin 8 [Source:RefSeq_peptide;Acc:NP_956374]; |
| NM_173219.1_3prime500bases266 | 0.60 | 0.60 | LIM domain only 1 (lmo1), |
| NM_200084.1_3prime500bases329 | 0.60 | 0.60 | ENSDARG00000040464 phosphomannomutase 2 (pmm2), |
| CK445313.1_3prime500bases394 | 0.62 | 0.58 | 0.60 ENSDARG00000004017 CB1089 5- similar to sperm associated antigen 1, |
| BQ169366.1_3prime500bases3 | 0.60 | 0.60 | ENSDARG00000013841 CB272 5- similar to TYROSINE-PROTEIN KINASE ABL2 |
| NM_130964.1_3prime500bases414 | 0.61 | 0.61 | ENSDARG00000007204 islet3 (isl3), |
| NM_181559.1_3prime500bases359 | 0.61 | 0.61 | ENSDARG00000039128:glutamine synthetase 1 [Source:RefSeq_peptide;Acc:NP_853537]; |
| NM_201459.1_3prime500bases430 | 0.61 | 0.61 | ENSDARG00000002792:archain 1 [Source:RefSeq_peptide;Acc:NP_958867]; |
| NM_001008615.1_3prime500bases182 | 0.59 | 0.63 | 0.61 ENSDARG00000041065:heat shock protein 1 [Source:RefSeq_peptide;Acc:NP_001008615]; |
| NM_001003882.2_3prime500bases425 | 0.61 | 0.61 | ENSDARG00000008237:seryl-tRNA synthetase [Source:RefSeq_peptide;Acc:NP_001003882]; |
| NM_130937.1_3prime500bases293 | 0.61 | 0.61 | 0.61 ENSDARG00000034894:Wnt-5 protein precursor. [Source:Uniprot/SWISSPROT;Acc:Q92050]; |
| NM_205702.1_3prime500bases229 | 0.61 | 0.61 | zgc:76868 (zgc:76868), |
| NM_131874.1_3prime500bases111 | 0.58 | 0.65 | 0.62 ENSDARG00000035622:X-box binding protein 1 [Source:RefSeq_peptide;Acc:NP_571949]; |

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| NM_001002869.1_3prime500bases19 | 0.59 | 0.64 | 0.62 | ENSDARG00000024593:DEAD (Asp-Glu-Ala-Asp) box polypeptide 27 [Source:RefSeq_peptide;Acc:NP_001002869]; |
| NM_131834.1_3prime500bases233 | 0.62 | | 0.62 | ENSDARG00000041959:chemokine (C-X-C motif), receptor 4b [Source:RefSeq_peptide;Acc:NP_571909]; |
| NM_198922.1_3prime500bases281 | 0.62 | | 0.62 | ENSDARG00000029305:BAI1-associated protein 2-like 1 [Source:RefSeq_peptide;Acc:NP_944604]; |
| CF417054.1_3prime500bases17 | 0.63 | 0.62 | 0.62 | cDNA clone CB850 5- similar to Methylmalonate-semialdehyde dehydrogenase |
| NM_212603.1_3prime500bases166 | 0.63 | | 0.63 | ENSDARG00000023330:acidic (leucine-rich) nuclear phosphoprotein 32 family, member B [Source:RefSeq_peptide;Acc:NP_997768]; |
| NM_198908.1_3prime500bases138 | 0.62 | 0.64 | 0.63 | ENSDARG00000007294:aconitase 2, mitochondrial [Source:RefSeq_peptide;Acc:NP_944590]; |
| CF417014.1_3prime500bases203 | 0.63 | | 0.63 | ENSDARESTG00000002702 clone CB810 5- similar to Beta-1 integrin |
| CK445305.1_3prime500bases82 | 0.63 | | 0.63 | cDNA clone CB896 5- similar to Spalt transcription factor Sall1 |
| NM_131055.1_3prime500bases433 | 0.63 | | 0.63 | ENSDARG00000021201:floating head [Source:RefSeq_peptide;Acc:NP_571130]; |
| NM_181757.2_3prime500bases66 | 0.64 | 0.62 | 0.63 | ENSDARG00000016470:annexin A5 [Source:RefSeq_peptide;Acc:NP_861422]; |
| NM_131511.1_3prime500bases250 | 0.62 | 0.65 | 0.63 | ENSDARG00000014673:frizzled 9 [Source:RefSeq_peptide;Acc:NP_571586]; |
| NM_131516.1_3prime500bases368 | 0.64 | | 0.64 | ENSDARG00000002768:Parvalbumin beta. [Source:Uniprot/SWISSPROT;Acc:Q9I8V0]; |
| NM_199274.1_3prime500bases294 | 0.64 | | 0.64 | ENSDARG000000040175:regulator of G-protein signalling 4 [Source:RefSeq_peptide;Acc:NP_954968]; |
| DIG0408_1690 | 0.64 | | 0.64 | |
| NM_131363.1_3prime500bases153 | 0.64 | | 0.64 | ENSDARG00000045102:sine oculis homeobox homolog 3b [Source:RefSeq_peptide;Acc:NP_571438]; |
| DIG0557_1492 | 0.64 | | 0.64 | |
| CF269292.1_3prime500bases211 | 0.64 | | 0.64 | CB751 5- similar to Vitamin K-dependent gamma-glutamyl carboxylase |
| NM_131235.2_3prime500bases8 | 0.64 | | 0.64 | GATA-binding protein 5 (gata5), |
| BI326806.1_3prime500bases170 | 0.65 | | 0.65 | ENSDARESTG0000000352 CB63 5- similar to SW:PGCV_CHICK Q90953 VERSICAN CORE PROTEIN PRECURSOR, |
| NM_183410.1_3prime500bases289 | 0.65 | | 0.65 | ENSDARG00000039645:annexin 11a isoform 1 [Source:RefSeq_peptide;Acc:NP_861430]; |
| NM_131784.1_3prime500bases435 | 0.65 | | 0.65 | BMP and activin membrane-bound inhibitor (Xenopus laevis) homolog (bambi), |
| BU670702.1_3prime500bases280 | 0.65 | | 0.65 | ENSDARG00000003509 CB407 5- similar to SPT:Q8UVV4 ATP-binding cassette transporter 1, |
| NM_130988.1_3prime500bases427 | 0.65 | | 0.65 | ENSDARG00000038798:Patched protein homolog 1 (Patched 1) (PTC1). [Source:Uniprot/SWISSPROT;Acc:Q98864]; |
| NM_131115.1_3prime500bases327 | 0.65 | | 0.65 | ENSDARG00000008174:Homeobox protein Hox-B1a (Hox-B1). [Source:Uniprot/SWISSPROT;Acc:O42366]; |
| CF269323.1_3prime500bases12 | 0.65 | | 0.65 | cDNA library Danio rerio cDNA clone CB732 5- similar to Centrin |
| NM_198870.1_3prime500bases332 | 0.65 | | 0.65 | ENSDARG00000009336:hypothetical protein LOC321033 [Source:RefSeq_peptide;Acc:NP_942571]; |
| NM_131290.1_3prime500bases274 | 0.65 | 0.66 | 0.65 | ENSDARG00000021032:forkhead box D3 [Source:RefSeq_peptide;Acc:NP_571365]; |
| NM_131632.1_3prime500bases37 | 0.65 | | 0.65 | ENSDARG00000022606:atonal homolog 7 [Source:RefSeq_peptide;Acc:NP_571707]; |
| NM_201292.1_3prime500bases426 | 0.65 | | 0.65 | ENSDARG00000029928:adaptor-related protein complex 3, mu 1 subunit [Source:RefSeq_peptide;Acc:NP_958449]; |
| NM_001002686.1_3prime500bases394 | 0.66 | | 0.66 | ENSDARG00000021003:zgc:91854 [Source:RefSeq_peptide;Acc:NP_001002686]; |
| NM_201176.1_3prime500bases372 | 0.66 | | 0.66 | ENSDARG00000017775:similar to ATP synthase, H+ transporting, mitochondrial F0 complex, subunit c (subunit 9) isoform 3 |
| CF673299.1_3prime500bases379 | 0.66 | | 0.66 | ENSDARESTG00000014248 CB926 5- similar to Gem-associated protein 5 |
| DIG0123_592 | 0.66 | | 0.66 | |

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| NM_131860.1_3prime500bases339 | 0.66 | 0.66 | ENSDARG00000015472:knypek [Source:RefSeq_peptide;Acc:NP_571935]; |
| NM_200075.1_3prime500bases316 | 0.66 | 0.66 | ENSDARG00000007665:Similar to RIKEN cDNA 1500019G21 gene [Source:RefSeq_peptide;Acc:NP_956369]; |
| BC055500.1_3prime500bases312 | 0.66 | 0.66 | ENSDARG000000029172:Polr1a protein (Fragment). [Source:Uniprot/SPTREMBL;Acc:Q7SXQ2]; |
| DIG0163_640 | 0.66 | 0.66 | ENSDARG00000003061:PREDICTED: similar to CD276 antigen isoform b [Source:RefSeq_peptide_predicted;Acc:XP_700973]; |
| NM_201491.1_3prime500bases432 | 0.66 | 0.66 | ENSDARG00000042853:isovaleryl Coenzyme A dehydrogenase [Source:RefSeq_peptide;Acc:NP_958899]; |
| NM_213103.1_3prime500bases427 | 0.67 | 0.67 | ENSDARG00000045902:hypothetical protein LOC406376 [Source:RefSeq_peptide;Acc:NP_998268]; |
| CB333792.1_3prime500bases355 | 1.50 | 1.50 | cDNA library Danio rerio cDNA clone CB116 3 |
| NM_130948.1_3prime500bases53 | 1.50 | 1.50 | ENSDARG00000037995:DVR-1 protein precursor. [Source:Uniprot/SWISSPROT;Acc:P35621]; |
| NM_131305.1_3prime500bases228 | 1.51 | 1.51 | ENSDARG00000013125:Homeobox protein Dlx1a (DLX-1). [Source:Uniprot/SWISSPROT;Acc:Q98875]; |
| NM_131734.2_3prime500bases396 | 1.51 | 1.51 | ENSDARG00000005039:glutathione S-transferase pi [Source:RefSeq_peptide;Acc:NP_571809]; |
| NM_201329.1_3prime500bases38 | 1.51 | 1.51 | ENSDARG00000034771:RAB13, member RAS oncogene family [Source:RefSeq_peptide;Acc:NP_958486]; |
| DIG0188_1237 | 1.52 | 1.52 | ENSDARG00000056084:PREDICTED: similar to CG33141-PA [Source:RefSeq_peptide_predicted;Acc:XP_696105]; |
| NM_201178.1_3prime500bases414 | 1.52 | 1.52 | ENSDARG00000014577:Rhopilin 2 (GTP-Rho binding protein 2). [Source:Uniprot/SWISSPROT;Acc:Q6TNR1]; |
| NM_213387.1_3prime500bases47 | 1.53 | 1.53 | ENSDARG00000044399:phosphoglycerate kinase 1 [Source:RefSeq_peptide;Acc:NP_998552]; |
| NM_131878.1_3prime500bases369 | 1.53 | 1.53 | ENSDARG00000025516:nanos homolog [Source:RefSeq_peptide;Acc:NP_571953]; |
| NM_001004122.1_3prime500bases414 | 1.53 | 1.53 | ENSDARG00000042947:myostatin-2 [Source:RefSeq_peptide;Acc:NP_001004122]; |
| DIG0311_361 | 1.54 | 1.54 | |
| NM_198912.1_3prime500bases424 | 1.54 | 1.54 | ENSDARESTG00000005713 peptidase D (pepd), |
| NM_131047.1_3prime500bases235 | 1.54 | 1.54 | ENSDARG00000043276:calreticulin [Source:RefSeq_peptide;Acc:NP_571122]; |
| NM_212823.1_3prime500bases272 | 1.55 | 1.55 | ENSDARG00000040602 ? |
| NM_131664.1_3prime500bases338 | 1.55 | 1.55 | ENSDARESTG00000014726 epithelial protein lost in neoplasm (eplin), |
| NM_173255.1_3prime500bases278 | 1.55 | 1.55 | ENSDARESTG00000018904 ATPase, H+ transporting, lysosomal, V0 subunit c (atp6v0c), |
| NM_201577.1_3prime500bases427 | 1.55 | 1.55 | ENSDARG00000005675 SEC61, beta subunit (sec61b), |
| NM_153662.1_3prime500bases434 | 1.56 | 1.56 | ENSDARG00000018788:sialyltransferase 8 [Source:RefSeq_peptide;Acc:NP_705948]; |
| NM_213058.1_3prime500bases432 | 1.56 | 1.56 | ENSDARG00000004665:heat shock 70kDa protein 5 [Source:RefSeq_peptide;Acc:NP_998223]; |
| NM_200074.3_3prime500bases186 | 1.57 | 1.57 | ENSDARESTG00000025067 calcium homeostasis endoplasmic reticulum protein (cherp) |
| CF269307.1_3prime500bases359 | 1.62 | 1.51 | 1.57 ENSDARG00000017906:hypothetical protein LOC554101 [Source:RefSeq_peptide;Acc:NP_001019574]; |
| CD808453.1_3prime500bases353 | 1.55 | 1.58 | 1.57 ENSDARESTG00000024342 clone CB654 5- similar to Histone protein Hist2h3c1, |
| BU808703.1_3prime500bases5 | 1.57 | 1.57 | cDNA clone CB516 5- similar to C-ets-1 protein |
| NM_199333.1_3prime500bases147 | 1.57 | 1.57 | ENSDARG00000003933:pyruvate kinase, muscle [Source:RefSeq_peptide;Acc:NP_955365]; |
| NM_201213.1_3prime500bases388 | 1.57 | 1.57 | ENSDARG00000010316:glutaminyl-tRNA synthetase [Source:RefSeq_peptide;Acc:NP_957507]; |
| NM_001007282.1_3prime500bases238 | 1.65 | 1.50 | 1.58 glutathione peroxidase 4a |
| NM_200088.1_3prime500bases361 | 1.58 | 1.58 | ENSDARG00000035332:hypothetical protein LOC368366 [Source:RefSeq_peptide;Acc:NP_956382]; |

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| NM_212835.1_3prime500bases46 | 1.58 | 1.58 | ENSDARG00000041954:chymotrypsin C (caldecrin) [Source:RefSeq_peptide;Acc:NP_956180]; |
| NM_001007371.1_3prime500bases41 | 1.58 | 1.58 | ENSDARG00000032640:zgc:101900 (zgc:101900), mRNA [Source:RefSeq_dna;Acc:NM_001007371]; |
| NM_201470.1_3prime500bases432 | 1.58 | 1.58 | ENSDARG00000008310:inositol hexaphosphate kinase 2 [Source:RefSeq_peptide;Acc:NP_958878]; |
| NM_201587.1_3prime500bases206 | 1.58 | 1.58 | islet cell autoantigen (ica), |
| NM_200108.1_3prime500bases408 | 1.58 | 1.58 | ENSDARESTG00000009408 zgc:55309 (zgc:55309), |
| NM_200025.1_365 | 1.59 | 1.59 | ENSDARG00000037071:ribosomal protein S26 [Source:RefSeq_peptide;Acc:NP_956319]; |
| NM_001007774.1_3prime500bases319 | 1.60 | 1.60 | ENSDARESTG00000005461 zgc:101730 (zgc:101730), mRNA |
| NM_194401.1_3prime500bases291 | 1.60 | 1.60 | ENSDARG00000002131:CUG triplet repeat, RNA binding protein 2 [Source:RefSeq_peptide;Acc:NP_919382]; |
| NM_201457.1_3prime500bases430 | 1.60 | 1.60 | ENSDARG00000008175:replication factor C (activator 1) 3 [Source:RefSeq_peptide;Acc:NP_958865]; |
| NM_131555.1_3prime500bases397 | 1.61 | 1.61 | ENSDARESTG00000011910 dopachrome tautomerase (dct), mRNA |
| NM_131528.1_3prime500bases298 | 1.61 | 1.61 | ENSDARG00000036693:Homeobox protein Hox-C9a (Hox-C9). [Source:Uniprot/SWISSPROT;Acc:Q9YGS6]; |
| NM_131757.1_3prime500bases427 | 1.63 | 1.63 | ENSDARG00000015707:dishevelled, dsh homolog 3 [Source:RefSeq_peptide;Acc:NP_571832]; |
| CB891031.1_3prime500bases308 | 1.63 | 1.63 | CB628 5- similar to Protein-tyrosine phosphatase X precursor |
| NM_131513.1_3prime500bases430 | 1.63 | 1.63 | ENSDARG00000038528 cyclin B1 (ccnb1), |
| CF673298.1_3prime500bases136 | 1.63 | 1.63 | ENSDARESTG000000024736 clone CB984 5- similar to Receptor-type protein-tyrosine phosphatase mu precursor |
| NM_213208.1_3prime500bases114 | 1.53 | 1.74 | 1.64 ENSDARG00000013307:60S ribosomal protein L19. [Source:Uniprot/SWISSPROT;Acc:Q6P5L3]; |
| NM_212707.1_3prime500bases162 | 1.67 | 1.61 | 1.64 ENSDARG00000000068:solute carrier family 9 (sodium/hydrogen exchanger), isoform 3 regulator 1 |
| NM_199216.1_3prime500bases16 | 1.64 | 1.64 | ENSDARG00000004964:cytochrome P450, family 4 [Source:RefSeq_peptide;Acc:NP_954686]; |
| NM_130939.1_3prime500bases418 | 1.65 | 1.65 | cth1 (cth1) |
| BU670753.1_3prime500bases358 | 1.65 | 1.65 | OTTDARG00000011035:si:ch211-76m11.4:Novel_CDS;OTTDARG00000011034:si:ch211-76m11.3:Novel_CDS; |
| NM_131826.1_3prime500bases50 | 1.58 | 1.73 | 1.66 ENSDARG00000009182:sprouty (Drosophila) homolog 4 [Source:RefSeq_peptide;Acc:NP_571901]; |
| NM_212795.1_3prime500bases117 | 1.74 | 1.57 | 1.66 ENSDARG000000022813:Dead end protein 1. [Source:Uniprot/SWISSPROT;Acc:Q7T1H5]; |
| NM_131105.2_3prime500bases297 | 1.66 | 1.66 | alpha-tropomyosin (tpma), |
| DIG0187_604 | 1.66 | 1.66 | |
| NM_173257.1_3prime500bases146 | 1.66 | 1.66 | ENSDARG00000015911:MCM2 minichromosome maintenance deficient 2, mitotin [Source:RefSeq_peptide;Acc:NP_775364]; |
| NM_131142.1_3prime500bases105 | 1.71 | 1.61 | 1.66 ENSDARG00000001353:Homeobox protein Hox-B1b (Hox-A1). [Source:Uniprot/SWISSPROT;Acc:Q90423]; |
| NM_001008581.1_3prime500bases327 | 1.67 | 1.67 | ENSDARG00000040046:hypothetical protein LOC494038 [Source:RefSeq_peptide;Acc:NP_001008581]; |
| NM_131322.2_3prime500bases422 | 1.67 | 1.67 | ENSDARG00000014626:Homeobox protein Dlx3b (DLX-3). [Source:Uniprot/SWISSPROT;Acc:Q01702]; |
| NM_001002486.1_247 | 1.67 | 1.67 | ENSDARG00000043977 zgc:92860 (zgc:92860), |
| NM_199538.1_3prime500bases295 | 1.64 | 1.70 | 1.67 ENSDARG000000033768:hypothetical protein LOC321203 [Source:RefSeq_peptide;Acc:NP_955832]; |
| NM_131506.1_3prime500bases351 | 1.68 | 1.68 | ENSDARG00000005150:T-box 20 [Source:RefSeq_peptide;Acc:NP_571581]; |
| NM_201487.1_3prime500bases385 | 1.59 | 1.78 | 1.68 ENSDARG00000014230:dihydroipoamide S-succinyltransferase [Source:RefSeq_peptide;Acc:NP_958895]; |
| NM_152956.1_3prime500bases377 | 1.68 | 1.68 | ENSDARG00000034785:dachshund b [Source:RefSeq_peptide;Acc:NP_694488]; |

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| NM_181766.1_3prime500bases179 | | 1.77 | 1.62 | 1.69 | annexin A11b (anxa11b), |
| NM_152948.1_3prime500bases351 | | 1.69 | | 1.69 | ENSDARG00000043658:cox sackie virus and adenovirus receptor [Source:RefSeq_peptide;Acc:NP_694480]; |
| NM_173241.1_3prime500bases267 | | 1.72 | 1.70 | 1.71 | ENSDARG00000023002:denticleless homolog [Source:RefSeq_peptide;Acc:NP_775348]; |
| NM_001003509.1_3prime500bases419 | | 1.72 | | 1.72 | ENSDARG00000004806:zgc:92443 [Source:RefSeq_peptide;Acc:NP_001003509]; |
| NM_178222.2_3prime500bases356 | | 1.72 | | 1.72 | ENSDARG00000023316:single-minded homolog 1 [Source:RefSeq_peptide;Acc:NP_835740]; |
| CF416980.1_3prime500bases316 | | 1.81 | 1.64 | 1.72 | ENSDARG00000042428 cDNA clone CB870 5- similar to Glutathione S-transferase 1 |
| NM_198980.1_3prime500bases177 | | 1.51 | 1.96 | 1.73 | ENSDARG00000004311:low density lipoprotein receptor adaptor protein 1 [Source:RefSeq_peptide;Acc:NP_945331]; |
| DIG0406_2221 | | 1.74 | | 1.74 | |
| NM_153651.1_3prime500bases435 | | 1.74 | | 1.74 | ENSDARG00000011273:homeo box 11-like [Source:RefSeq_peptide;Acc:NP_705937]; |
| NM_178286.2_3prime500bases402 | | 1.72 | 1.78 | 1.75 | ENSDARESTG00000006588 selenoprotein M (sepm), |
| NM_131644.1_3prime500bases279 | | 1.75 | | 1.75 | ENSDARG00000043923:SRY-box containing gene 9b [Source:RefSeq_peptide;Acc:NP_571719]; |
| CF943689.1_3prime500bases114 | | 1.76 | | 1.76 | ENSDARG00000045305 CB1053 5- similar to High-affinity cAMP-specific 3-,5--cyclic phosphodiesterase 7A |
| CB923498.1_3prime500bases313 | | 1.79 | | 1.79 | ENSDARG00000018678 clone CB453 5- similar to Ras-related protein Rab-40C (SOCS box containing protein RAR3), |
| NM_131294.1_3prime500bases435 | | 1.80 | | 1.80 | ENSDARG00000043848:Superoxide dismutase [Cu-Zn] (EC 1.15.1.1). [Source:Uniprot/SWISSPROT;Acc:O73872]; |
| NM_212574.1_3prime500bases193 | | 1.65 | 1.95 | 1.80 | ENSDARESTG00000014835 solute carrier family 11 (proton-coupled divalent metal ion transporters), member 2 (slc11a2) |
| NM_200090.1_3prime500bases311 | | 1.97 | 1.63 | 1.80 | ENSDARG00000040730:hypothetical protein LOC368478 [Source:RefSeq_peptide;Acc:NP_956384]; |
| NM_198807.1_3prime500bases67 | | 1.81 | | 1.81 | ENSDARG00000020289:PIF1 homolog [Source:RefSeq_peptide;Acc:NP_942102]; |
| NM_201206.1_3prime500bases257 | | 1.81 | | 1.81 | ENSDARG00000011626:COX15 homolog, cytochrome c oxidase assembly protein [Source:RefSeq_peptide;Acc:NP_957500]; |
| NM_200105.1_3prime500bases210 | | 1.64 | 1.99 | 1.81 | ENSDARG00000026862:fused toes homolog [Source:RefSeq_peptide;Acc:NP_956399]; |
| NM_131267.1_3prime500bases432 | | 1.82 | | 1.82 | ENSDARG00000036097:iroquois homeobox protein 3a [Source:RefSeq_peptide;Acc:NP_571342]; |
| NM_001001941.1_3prime500bases82 | | 1.84 | | 1.84 | ENSDARG00000004173:coatomer protein complex, subunit alpha [Source:RefSeq_peptide;Acc:NP_001001941]; |
| NM_131875.1_3prime500bases0 | | 2.16 | 1.54 | 1.85 | SRY-box containing gene 10 (sox10), |
| NM_200960.1_3prime500bases153 | | 1.63 | 2.07 | 1.85 | ENSDARG00000011175:ATPase, H+ transporting, V1 subunit D [Source:RefSeq_peptide;Acc:NP_957254]; |
| NM_001007038.1_3prime500bases269 | | 2.06 | 1.64 | 1.85 | ENSDARG00000044593:ATP-binding cassette, sub-family C (CFTR/MRP), member 4 (abcc4), mRNA |
| NM_130945.1_3prime500bases213 | | 1.86 | | 1.86 | ENSDARG00000015717:fms-related tyrosine kinase 4 [Source:RefSeq_peptide;Acc:NP_571020]; |
| NM_130947.1_3prime500bases404 | | 1.87 | | 1.87 | ENSDARG00000040836:Wnt-4a protein precursor. [Source:Uniprot/SWISSPROT;Acc:P47793]; |
| NM_178297.2_3prime500bases120 | | 1.73 | 2.02 | 1.87 | ENSDARESTG00000020068 selenoprotein P, plasma, 1a (sepp1a), |
| NM_201299.1_3prime500bases275 | | 1.73 | 2.05 | 1.89 | ENSDARG00000025904:glycoprotein, synaptic 2 [Source:RefSeq_peptide;Acc:NP_958456]; |
| NM_183071.1_3prime500bases384 | | 2.20 | 1.58 | 1.89 | ENSDARG00000040344:linker histone H1M [Source:RefSeq_peptide;Acc:NP_898894]; |
| NM_001004602.1_3prime500bases143 | | 1.76 | 2.03 | 1.89 | zgc:86701 |
| NM_173223.2_3prime500bases346 | | 1.82 | 1.97 | 1.90 | ENSDARG00000002731:syndecan 2 [Source:RefSeq_peptide;Acc:NP_775330]; |
| NM_131665.1_3prime500bases403 | 1.54 | 2.28 | | 1.91 | ENSDARG00000021389:jagged 2 isoform 1 [Source:RefSeq_peptide;Acc:NP_571937]; |
| NM_194374.1_3prime500bases181 | | 1.83 | 2.01 | 1.92 | ENSDARG00000041217:exportin 6 [Source:RefSeq_peptide;Acc:NP_919355]; |

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| NM_212817.1_3prime500bases313 | 1.89 | 2.01 | 1.95 | ENSDARG00000038964:tnf receptor-associated factor 4b [Source:RefSeq_peptide;Acc:NP_997982]; |
| NM_212817.1_3prime500bases337 | 2.01 | 1.89 | 1.95 | ENSDARG00000038964:tnf receptor-associated factor 4b [Source:RefSeq_peptide;Acc:NP_997982]; |
| NM_001001399.1_3prime500bases370 | 1.93 | 1.96 | 1.95 | ENSDARG00000005230:signal sequence receptor, beta [Source:RefSeq_peptide;Acc:NP_001001399]; |
| NM_201499.1_3prime500bases421 | 1.96 | | 1.96 | ENSDARG000000025375:isocitrate dehydrogenase 1 (NADP+), soluble [Source:RefSeq_peptide;Acc:NP_958907]; |
| NM_200107.1_3prime500bases149 | 1.97 | 2.01 | 1.99 | ENSDARG000000037618:hypothetical protein LOC378866 [Source:RefSeq_peptide;Acc:NP_956401]; |
| DIG0379_421 | 1.99 | | 1.99 | |
| CF417020.1_3prime500bases393 | 2.01 | | 2.01 | ENSDARG000000034829 CB816 5- similar to Procollagen-lysine,2-oxoglutarate 5-dioxygenase 3 precursor |
| NM_001002468.1_3prime500bases415 | 2.01 | | 2.01 | ENSDARG000000025350:hypothetical protein LOC436741 [Source:RefSeq_peptide;Acc:NP_001002468]; |
| NM_199532.1_3prime500bases125 | 1.68 | 2.36 | 2.02 | ENSDARG00000004402:ELOVL family member 6, elongation of long chain fatty acids [Source:RefSeq_peptide;Acc:NP_955826]; |
| NM_130922.1_3prime500bases109 | 2.24 | 1.81 | 2.02 | ENSDARG000000020298:B-cell translocation gene 2 [Source:RefSeq_peptide;Acc:NP_570997]; |
| NM_001007124.1_3prime500bases325 | 2.03 | | 2.03 | ENSDARG000000028415 met proto-oncogene (hepatocyte growth factor receptor) (met), |
| NM_199212.1_3prime500bases100 | 1.93 | 2.15 | 2.04 | ENSDARG000000025522:serum/glucocorticoid regulated kinase [Source:RefSeq_peptide;Acc:NP_954682]; |
| BC081600.1_3prime500bases407 | 2.05 | | 2.05 | ENSDARG00000016771:transferrin-a [Source:RefSeq_peptide;Acc:NP_001015057]; |
| NM_131247.1_3prime500bases435 | 2.05 | | 2.05 | lactate dehydrogenase B4 (ldhb), |
| Cab | 2.05 | | 2.05 | |
| NM_131041.1_3prime500bases430 | 2.06 | | 2.06 | ENSDARG000000037231:Neurogenin 1 (Neurogenic differentiation factor 3) (NeuroD3) (Neurogenin related protein-1). |
| NM_131500.1_3prime500bases388 | 2.06 | | 2.06 | ENSDARG000000040159:wingless-type MMTV integration site family, member 4b [Source:RefSeq_peptide;Acc:NP_571575]; |
| NM_131503.1_3prime500bases104 | 2.04 | 2.12 | 2.08 | ENSDARG000000026534:Axin-1 (Axis inhibition protein 1). [Source:Uniprot/SWISSPROT;Acc:P57094]; |
| BM402118.1_3prime500bases243 | 2.15 | 2.02 | 2.09 | ENSDARG00000014499:hypothetical protein LOC445204 [Source:RefSeq_peptide;Acc:NP_001003598]; |
| NM_200109.1_3prime500bases196 | 1.72 | 2.47 | 2.09 | ENSDARG000000039527 TSC22 domain family 2 (tsc22d2) |
| NM_131848.1_3prime500bases415 | 1.91 | 2.30 | 2.11 | ENSDARG00000004729:transcription factor binding to IGHM enhancer 3a [Source:RefSeq_peptide;Acc:NP_571923]; |
| CF924885.1_3prime500bases240 | 2.09 | 2.13 | 2.11 | ENSDARESTG000000025399 cDNA clone CB1014 5- similar to Q8wux2 Similar to RIKEN cDNA 2510006C20 gene |
| NM_198978.1_3prime500bases380 | 2.12 | | 2.12 | ENSDARESTG00000016872 programmed cell death 4b (pdcd4b), |
| NM_198072.1_3prime500bases142 | 2.03 | 2.22 | 2.13 | ENSDARESTG00000006053 5-methyltetrahydrofolate-homocysteine methyltransferase (mtr), |
| NM_131247.1_3prime500bases423 | 2.13 | | 2.13 | ENSDARG000000035139 lactate dehydrogenase B4 (ldhb), |
| NM_198978.1_3prime500bases371 | 2.15 | | 2.15 | ENSDARG000000041022:programmed cell death 4 [Source:RefSeq_peptide;Acc:NP_945329]; |
| NM_178298.2_3prime500bases266 | 1.72 | 2.59 | 2.16 | ENSDARESTG00000011008 selenoprotein P, plasma, 1b (sepp1b) |
| DIG0565_1528 | 2.16 | | 2.16 | ENSDARG000000037493:hypothetical protein LOC553785 [Source:RefSeq_peptide;Acc:NP_001018583]; |
| NM_199519.2_3prime500bases22 | 1.93 | 2.45 | 2.19 | Enah/Vasp-like a (evla), |
| NM_199273.1_3prime500bases79 | 2.32 | 2.07 | 2.19 | ENSDARESTG00000011553 zgc:66433 (zgc:66433), |
| NM_131729.2_3prime500bases151 | 2.21 | | 2.21 | OTTDARG00000006320:si:dkey-197d18.1:Novel_CDS |
| NM_131184.2_3prime500bases100 | 1.99 | 2.44 | 2.22 | ENSDARG000000028148 paired box gene 2a (pax2a), |
| NM_001003512.1_3prime500bases320 | 2.24 | | 2.24 | ENSDARG000000031616:zgc:92368 [Source:RefSeq_peptide;Acc:NP_001003512]; |

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| NM_182878.1_3prime500bases422 | | 2.24 | 2.24 | ENSDARG00000013443:ATPase, H+ transporting, lysosomal, V1 subunit B, member a [Source:RefSeq_peptide;Acc:NP_878298]; |
| NM_212815.1_3prime500bases352 | | 2.27 | 2.27 | ENSDARG00000026797:v-akt murine thymoma viral oncogene homolog 2, like [Source:RefSeq_peptide;Acc:NP_997980]; |
| NM_212994.1_3prime500bases261 | | 2.41 | 2.14 2.27 | ENSDARESTG00000019878 heterogeneous nuclear ribonucleoprotein K (hnrpk), |
| NM_130954.1_3prime500bases250 | 1.61 | 2.35 | 2.90 2.29 | ENSDARG00000010791:deltaA [Source:RefSeq_peptide;Acc:NP_571029]; |
| NM_173222.1_3prime500bases325 | | 1.89 | 2.72 2.30 | ENSDARG00000043257:creatine kinase, brain [Source:RefSeq_peptide;Acc:NP_775329]; |
| NM_198208.1_3prime500bases109 | | 1.98 | 2.66 2.32 | ENSDARESTG00000005100 transcription factor Dp-2 (tfdp2), |
| NM_131893.1_3prime500bases348 | | 2.32 | 2.32 | ENSDARESTG00000004657 myeloid ecotropic viral integration 1 (meis1), |
| NM_198877.1_3prime500bases272 | | 2.30 | 2.34 2.32 | ENSDARG00000042931:muscle-specific beta 1 integrin binding protein 2 [Source:RefSeq_peptide;Acc:NP_942578]; |
| NM_131341.1_3prime500bases304 | | 2.32 | 2.32 | ENSDARESTG00000000876 growth associated protein 43 (gap43), |
| NM_131613.1_3prime500bases337 | | 2.34 | 2.34 | ENSDARG00000005315:CUG triplet repeat, RNA-binding protein 1 [Source:RefSeq_peptide;Acc:NP_571688]; |
| NM_212761.1_2 | | 2.34 | 2.34 | ENSDARG00000009978:ictacalcin [Source:RefSeq_peptide;Acc:NP_997926]; |
| NM_152955.1_3prime500bases117 | | 1.85 | 2.84 2.34 | ENSDARESTG00000012272 dachshund a (dacha), |
| NM_131193.1_3prime500bases146 | | 2.37 | 2.37 | eyes absent homolog 1 (eya1), |
| NM_199217.1_3prime500bases187 | | 2.60 | 2.21 2.41 | four and a half LIM domains (fhl), |
| NM_001003980.1_3prime500bases380 | | 2.29 | 2.56 2.43 | ENSDARG00000002330:LIM homeobox 8 [Source:RefSeq_peptide;Acc:NP_001003980]; |
| NM_131761.1_3prime500bases338 | | 2.40 | 2.48 2.44 | ENSDARG00000009447:ATP synthase, H+ transporting, mitochondrial F0 complex, subunit c (subunit 9) |
| NM_131807.1_3prime500bases404 | | 2.45 | 2.45 | ENSDARG00000008434:bcl2-like [Source:RefSeq_peptide;Acc:NP_571882]; |
| NM_182855.1_3prime500bases382 | | 2.57 | 2.36 2.46 | ENSDARG00000040030 transforming growth factor, beta receptor II (tgfb2), |
| NM_131360.1_3prime500bases428 | | 2.49 | 2.49 | ENSDARG00000041430:bone morphogenetic protein 2b [Source:RefSeq_peptide;Acc:NP_571435]; |
| NM_131077.1_3prime500bases386 | | 2.52 | 2.52 | ENSDARG00000008796:hairy-related 5 [Source:RefSeq_peptide;Acc:NP_571152]; |
| NM_201496.1_3prime500bases413 | | 2.53 | 2.53 | ENSDARG00000031915:Hypoxia-inducible factor 1 alpha inhibitor (EC 1.14.11.16) (Hypoxia- inducible factor asparagine hydroxylase). |
| NM_131802.1_3prime500bases421 | | 2.54 | 2.54 | ENSDARG00000011683:HHGP protein [Source:RefSeq_peptide;Acc:NP_955812]; |
| zfp361_3prime500bases67 | | 2.83 | 2.28 2.55 | ENSDARG00000016154 |
| NM_201309.1_3prime500bases192 | | 2.31 | 2.82 2.56 | suppressor of fused homolog (Drosophila) (sufu), |
| NM_131283.1_3prime500bases432 | | 2.61 | 2.61 | ENSDARG00000039228:forkhead box B1.1 [Source:RefSeq_peptide;Acc:NP_571358]; |
| NM_001003982.1_3prime500bases262 | | 2.61 | 2.61 | ENSDARG00000029830:myogenic factor 6 [Source:RefSeq_peptide;Acc:NP_001003982]; |
| BC056835.1_3prime500bases399 | | 2.64 | 2.64 | ENSDARG00000040266 SRY-box containing gene 31, |
| NM_131759.1_3prime500bases434 | | 2.65 | 2.65 | ENSDARG00000036516:hemoglobin beta embryonic-1 [Source:RefSeq_peptide;Acc:NP_571834]; |
| CF943713.1_3prime500bases61 | | 2.65 | 2.65 | ENSDARG00000003001 CB1077 5- similar to Myosin Vb, |
| NM_199522.1_3prime500bases430 | | 2.67 | 2.67 | ENSDARG00000034539:ras homolog gene family, member E [Source:RefSeq_peptide;Acc:NP_955816]; |
| DIG0161_670 | | 2.83 | 2.83 | ENSDARG00000017389:hypothetical protein LOC405860 [Source:RefSeq_peptide;Acc:NP_998089]; |
| NM_131461.1_3prime500bases418 | | 2.87 | 2.87 | endothelium-specific receptor tyrosine kinase 2 (tie2), |
| NM_131682.2_3prime500bases18 | | 2.89 | 2.89 | ENSDARG00000041945:Aminolevulinate, delta-, synthetase 2 (Fragment). [Source:Uniprot/SPTREMBL;Acc:Q5RIZ3]; |

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| NM_131679.3_3prime500bases168 | 2.72 | 3.25 | 2.99 | ENSDARG00000006640:eomesodermin homolog [Source:RefSeq_peptide;Acc:NP_571754]; |
| NM_131881.1_3prime500bases266 | 2.83 | 3.16 | 3.00 | ENSDARG00000002601:iroquois homeobox protein 7 [Source:RefSeq_peptide;Acc:NP_571956]; |
| CA854263.1_3prime500bases122 | 2.88 | 3.11 | 3.00 | ENSDARG00000043457:Hypothetical protein (Fragment). [Source:Uniprot/SPTREMBL;Acc:Q5XJ10]; |
| NM_131348.2_3prime500bases39 | 3.00 | | 3.00 | ENSDARG00000014125:friend leukemia integration 1 [Source:RefSeq_peptide;Acc:NP_571423]; |
| NM_130923.1_3prime500bases410 | 2.44 | 3.59 | 3.01 | microphthalmia-associated transcription factor a (mitfa), |
| NM_199276.1_3prime500bases122 | 2.91 | 3.21 | 3.06 | ENSDARG00000028462:H1 histone family, member X [Source:RefSeq_peptide;Acc:NP_954970]; |
| NM_199431.1_3prime500bases312 | 3.01 | 3.19 | 3.10 | ENSDARG00000041703:ribosome binding protein 1 homolog (dog) [Source:RefSeq_peptide;Acc:NP_955463]; |
| NM_173283.3_3prime500bases165 | 3.32 | 2.90 | 3.11 | ENSDARG00000014947:insulin-like growth factor binding protein 1 [Source:RefSeq_peptide;Acc:NP_775390]; |
| NM_198911.1_3prime500bases435 | 3.22 | | 3.22 | ENSDARG00000020235:septin 9 [Source:RefSeq_peptide;Acc:NP_944593]; |
| NM_182940.2_3prime500bases403 | 2.40 | 4.13 | 3.26 | ENSDARG00000036515 hemoglobin alpha embryonic-1 (hbae1), |
| DIG0228_268 | 3.32 | | 3.32 | |
| NM_201503.1_3prime500bases263 | 3.92 | 2.95 | 3.43 | ENSDARG00000012395:matrix metalloproteinase 13 [Source:RefSeq_peptide;Acc:NP_958911]; |
| NM_131323.1_3prime500bases422 | 3.70 | 3.31 | 3.50 | ENSDARG00000042291:Homeobox protein Dlx6a (DLX-6). [Source:Uniprot/SWISSPROT;Acc:Q98877]; |
| NM_131204.1_3prime500bases136 | 3.07 | 3.99 | 3.53 | ENSDARG00000019949:heat shock protein 47 [Source:RefSeq_peptide;Acc:NP_571279]; |
| NM_214723.1_3prime500bases352 | 3.55 | | 3.55 | ENSDARG00000039007:enolase 3, (beta, muscle) [Source:RefSeq_peptide;Acc:NP_999888]; |
| NM_131262.1_3prime500bases166 | 4.00 | 3.38 | 3.69 | ENSDARG00000030110:Myoblast determination protein 1 homolog (Myogenic factor 1). [Source:Uniprot/SWISSPROT;Acc:Q90477]; |
| NM_130970.1_3prime500bases144 | 4.63 | 2.79 | 3.71 | ENSDARG00000003971:Insulin gene enhancer protein ISL-2 (Islet-2). [Source:Uniprot/SWISSPROT;Acc:P53406]; |
| NM_180965.3_3prime500bases316 | 3.63 | 4.20 | 3.91 | ENSDARESTG00000019581 claudin g (cldng), |
| NM_131273.1_3prime500bases426 | 3.93 | | 3.93 | ENSDARG00000007641:muscle segment homeobox E [Source:RefSeq_peptide;Acc:NP_571348]; |
| NM_153673.1_3prime500bases417 | 4.49 | | 4.49 | ENSDARG00000008433 unc-45 homolog B (C. elegans) (unc45b), |
| NM_181735.1_3prime500bases304 | 5.37 | 6.62 | 5.99 | ENSDARG00000019659:forkhead box l1 [Source:RefSeq_peptide;Acc:NP_859424]; |
| NM_205569.1_3prime500bases115 | 4.50 | 7.58 | 6.04 | ENSDARG00000031683:v-fos FBJ murine osteosarcoma viral oncogene homolog [Source:RefSeq_peptide;Acc:NP_991132]; |
| NM_153666.1_3prime500bases311 | 6.82 | 6.58 | 6.70 | ENSDARG00000011785:T-box 24 [Source:RefSeq_peptide;Acc:NP_705952]; |