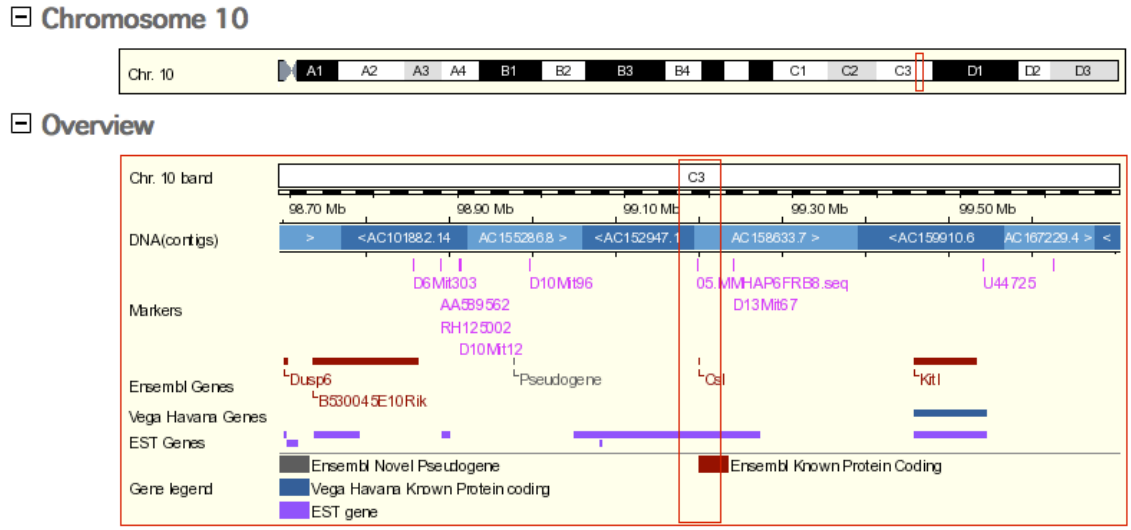
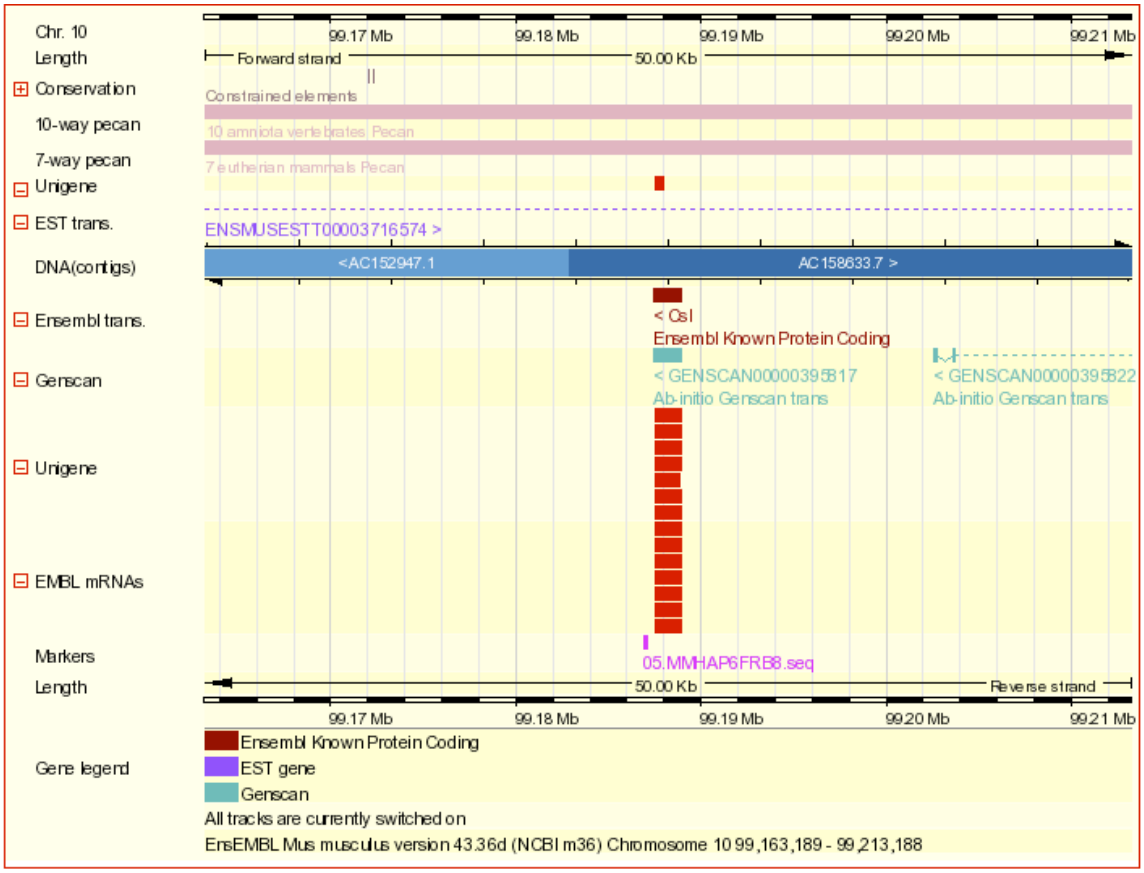
Supplementary Figure 4

*(a) Citrate synthase from Mouse (*ENSMUSP00000052373, *as in Suppl. Fig. 3)*

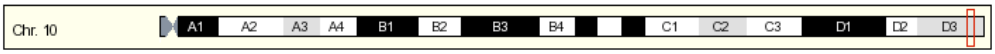
PR (ENSMUSP00000052373)
[$P_{RFC} \leq 0.01$; Ka/Ks (PR-parent) = 0.21; Ka = 0.04; Ks = 0.19; no match to full-length cDNA]



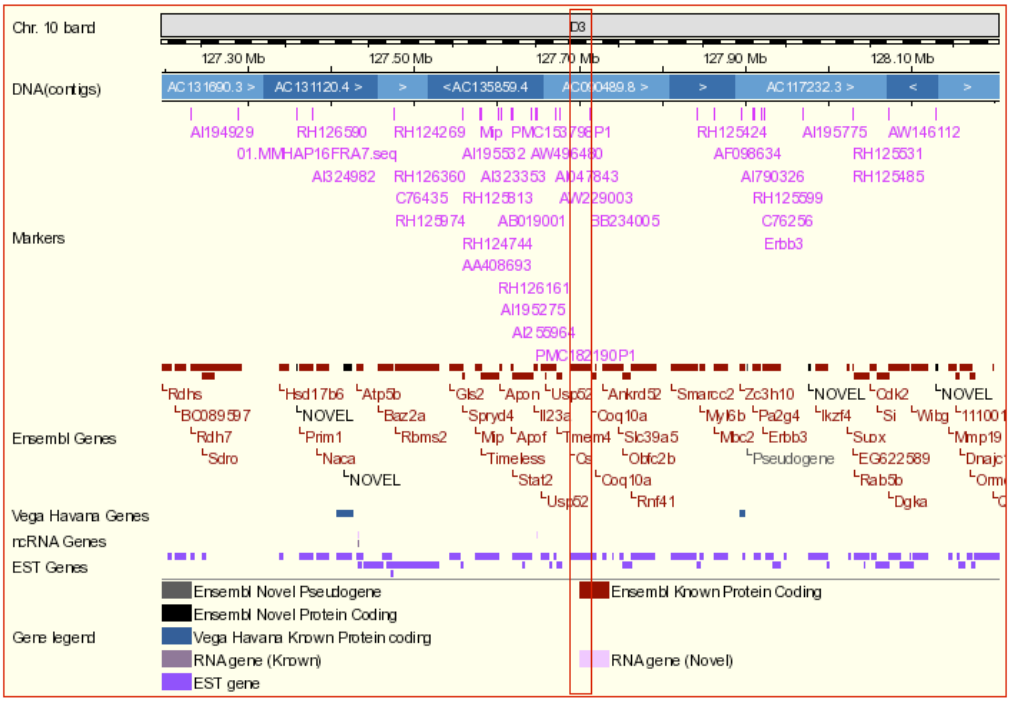


Parent (ENSMUSP00000005826)

Chromosome 10



Overview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127.50 Mb
127.70 Mb
127.90 Mb
128.10 Mb
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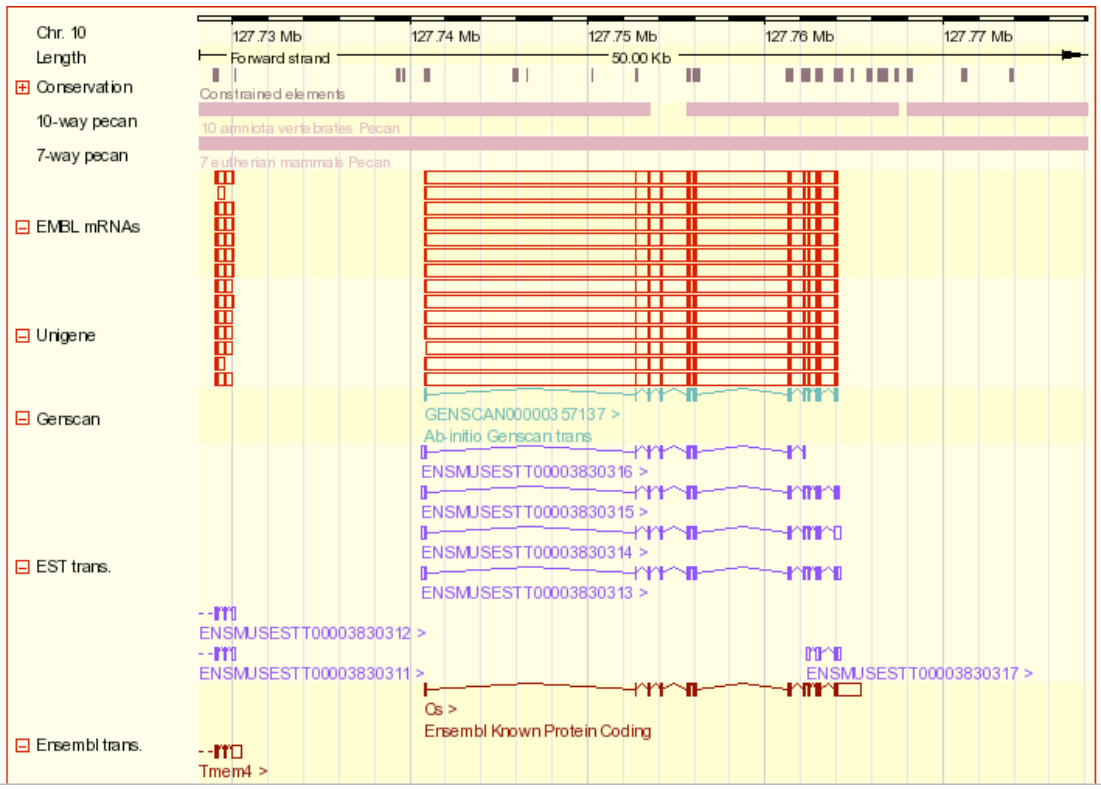
Markers
Ensembl Genes
Vega Havana Genes
ncRNA Genes
EST Genes
Gene legend
Ensembl Novel Pseudogene
Ensembl Novel Protein Coding
Vega Havana Known Protein coding
RNA gene (Known)
EST gene
Ensembl Known Protein Coding
RNA gene (Novel)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127.74 Mb
127.75 Mb
127.76 Mb
127.77 Mb
Forward strand
50.00 Kb
Conservation
Constrained elements
10-way pecan
10 amniota vertebrates Pecan
7-way pecan
7 eutherian mammals Pecan
EMBL mRNAs
Unigene
Genscan
GENSCAN00000357137 >
Ab-initio Genscan trans
EST trans.
ENSMUSESTT00003830316 >
ENSMUSESTT00003830315 >
ENSMUSESTT00003830314 >
ENSMUSESTT00003830313 >
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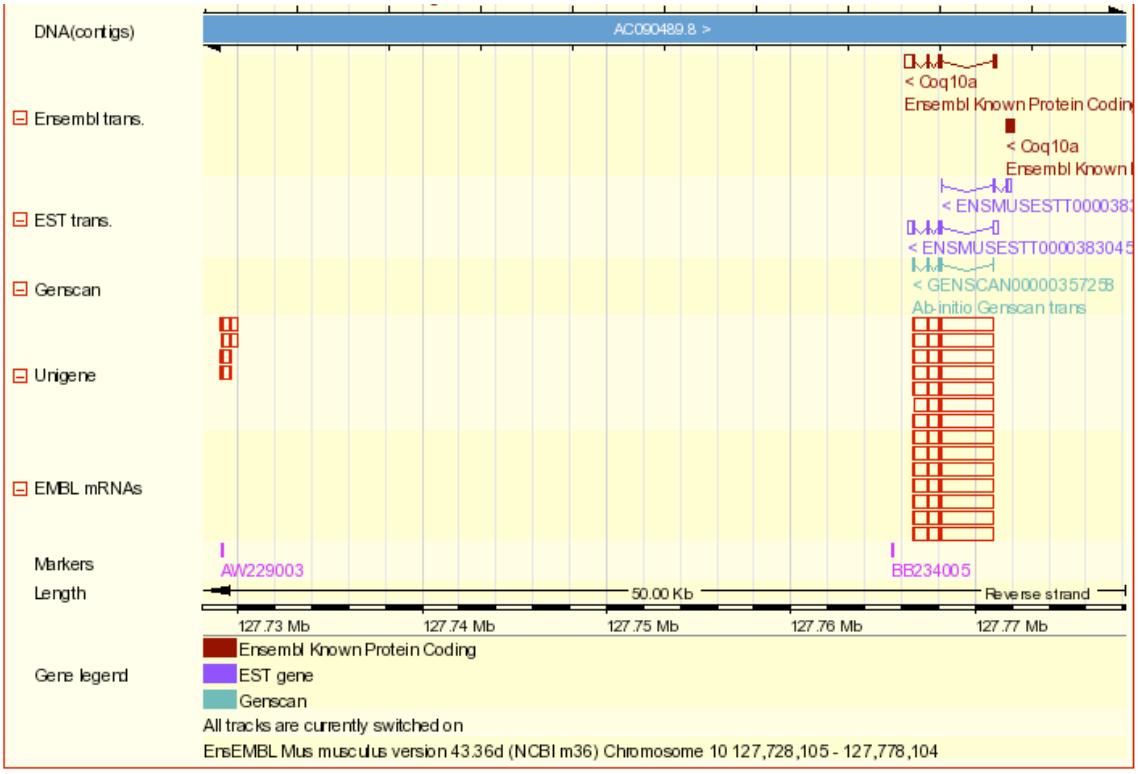
Os >
Ensembl Known Protein Coding
Ensembl trans.
Tmem4 >

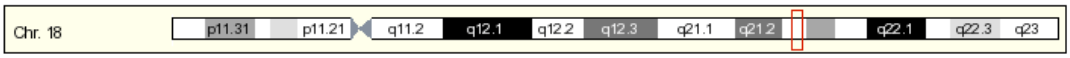


(b) Ribosomal protein L24-like homolog ENSP00000269477 *(Human)*

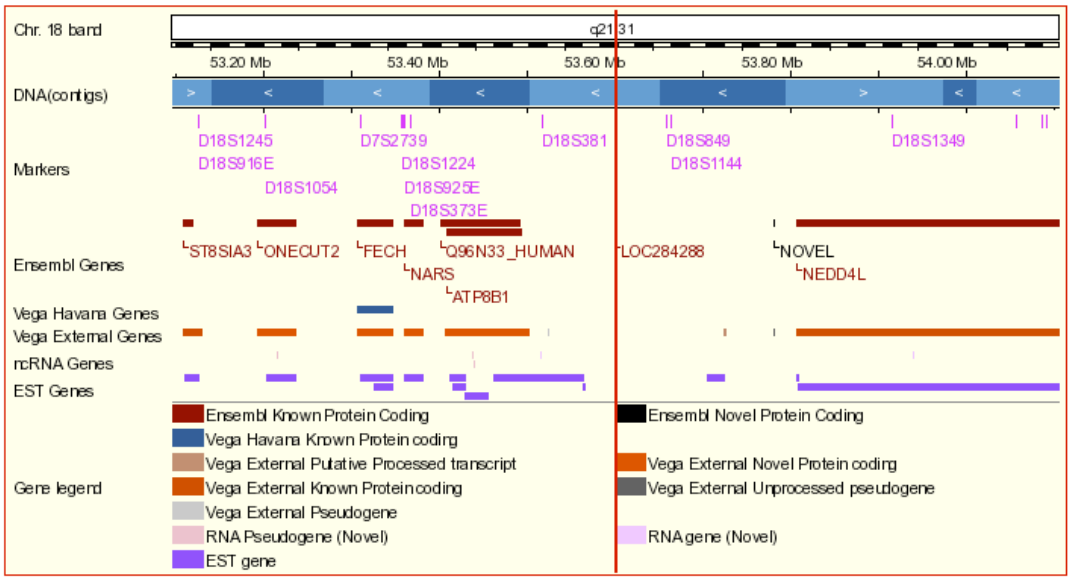
PR (ENSP00000269477)

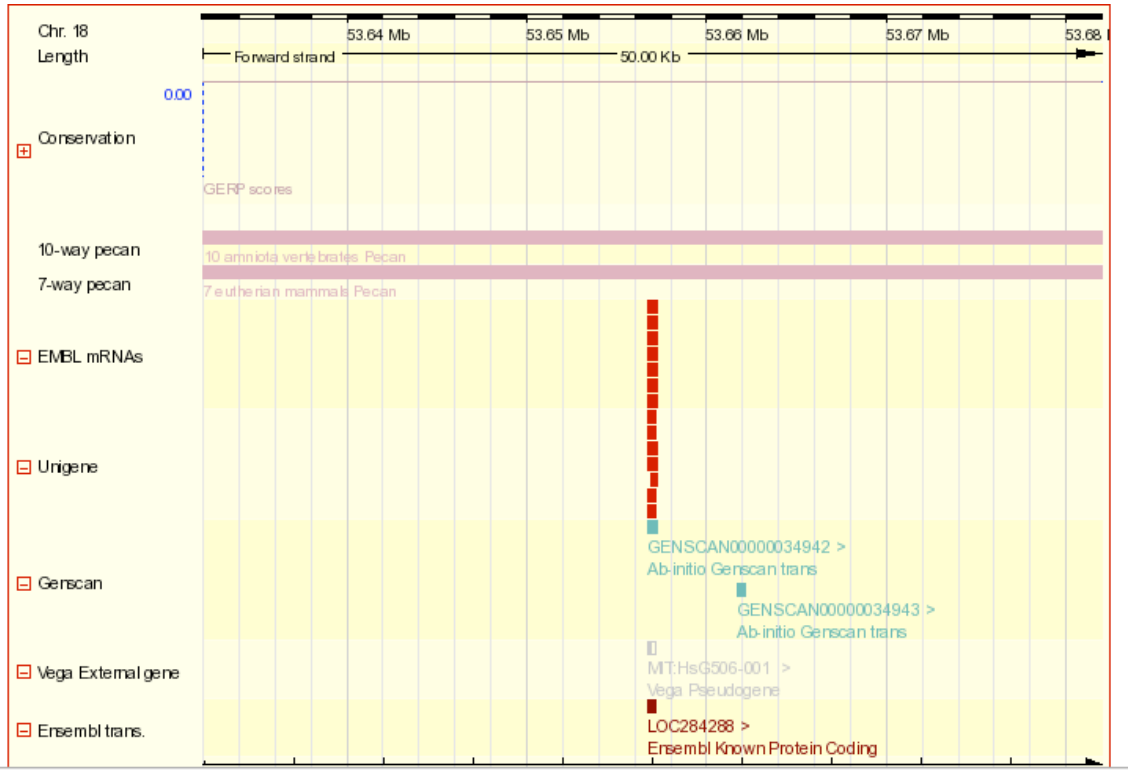
[P_{RFC} >0.01 ; Ka/Ks (PR-parent) = 0.75; Ka = 0.07; Ks = 0.10; no match to full-length cDNA]

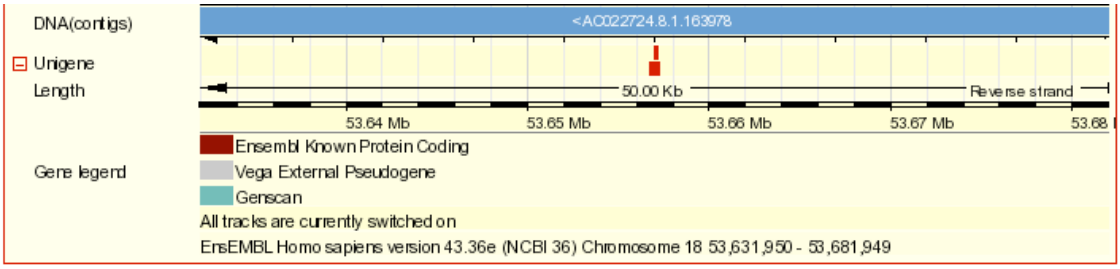
Chromosome 18



Overview

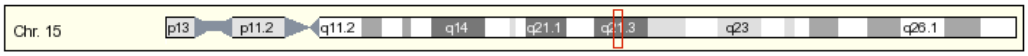




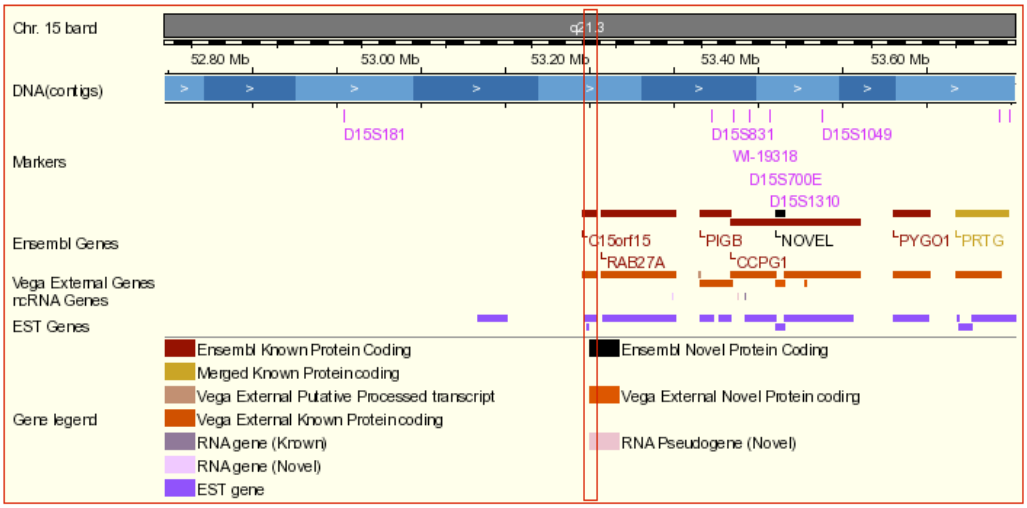


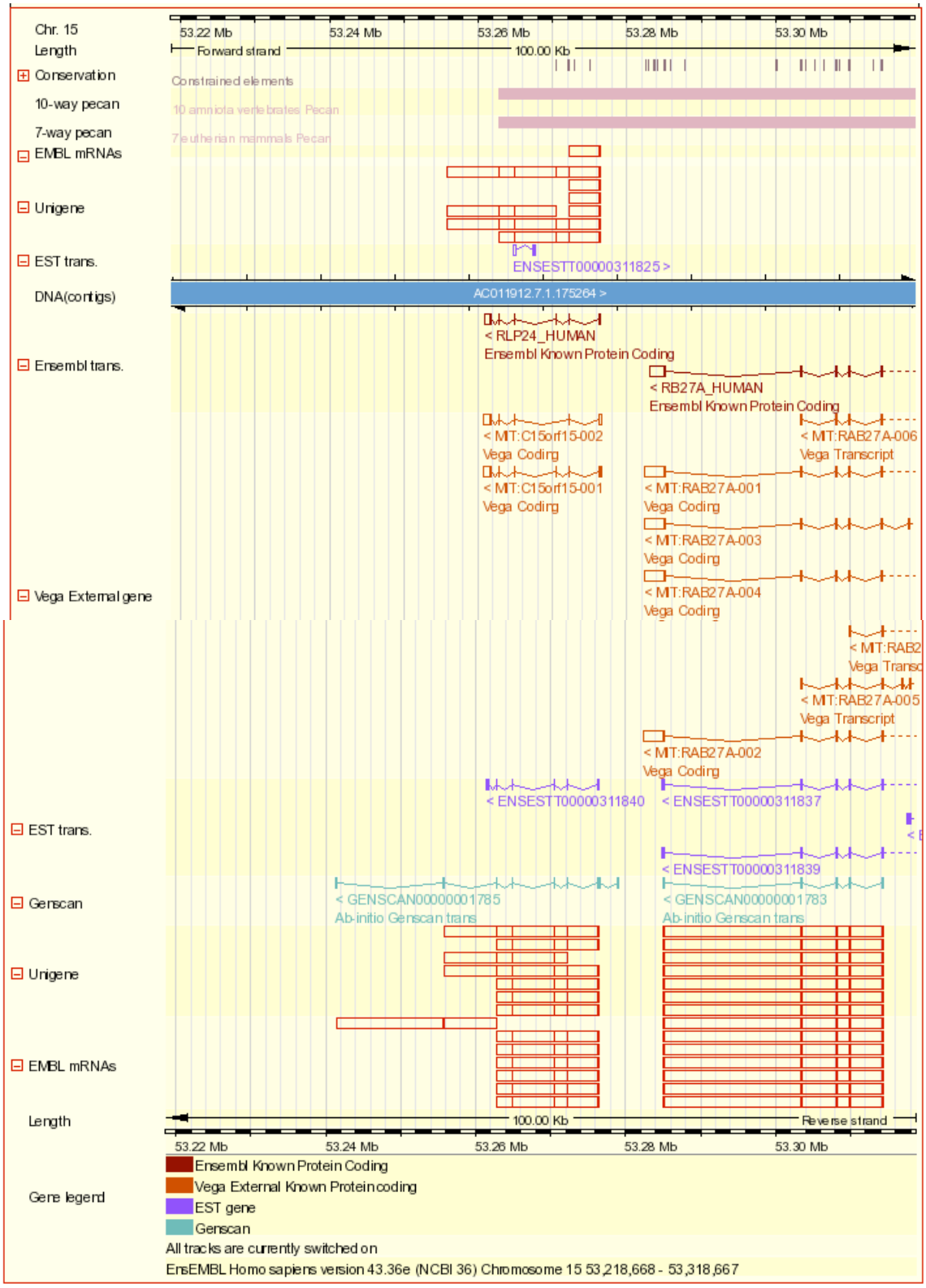
Parent (ENSP00000260443)

Chromosome 15



Overview




Chr. 15
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7-way pecan
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Unigene
EST trans.
DNA(contigs)
Ensembl trans.
Vega External gene
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Genscan
Unigene
EMBL mRNAs
Length
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53.24 Mb
53.26 Mb
53.28 Mb
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Forward strand
100.00 Kb
Reverse strand
Constrained elements
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7 eutherian mammals Pecan
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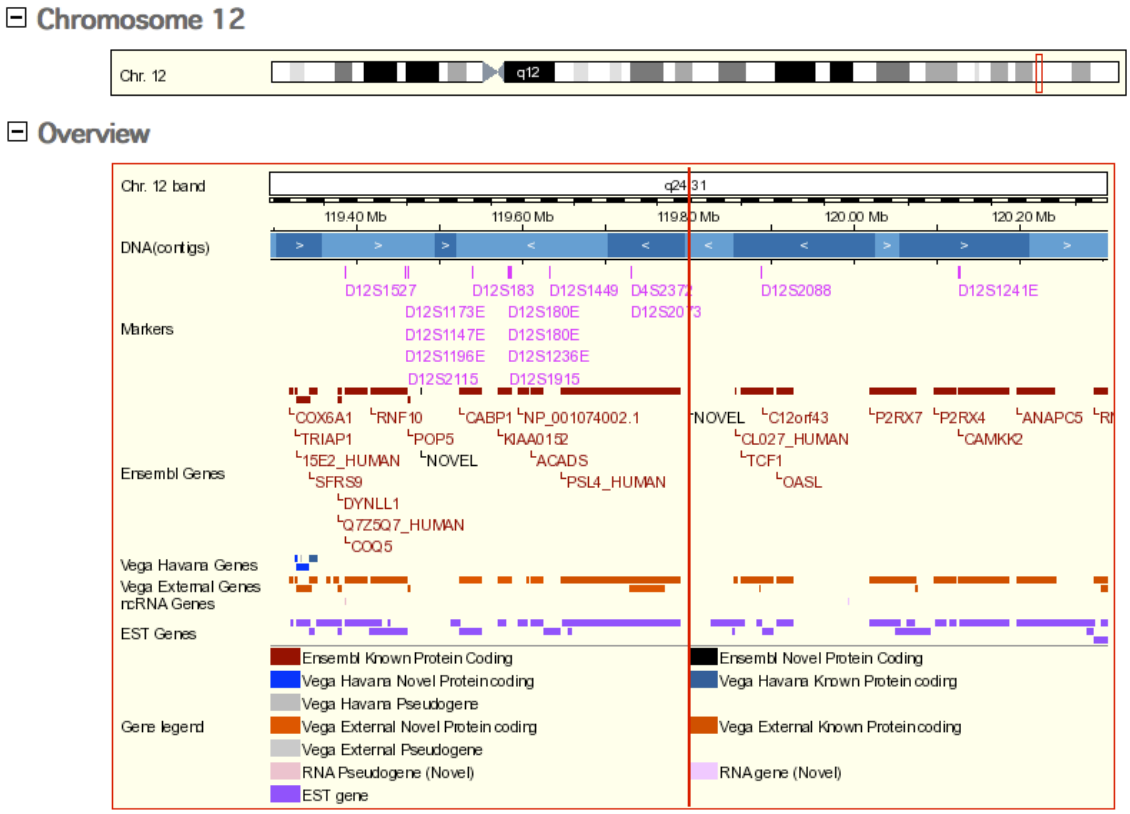
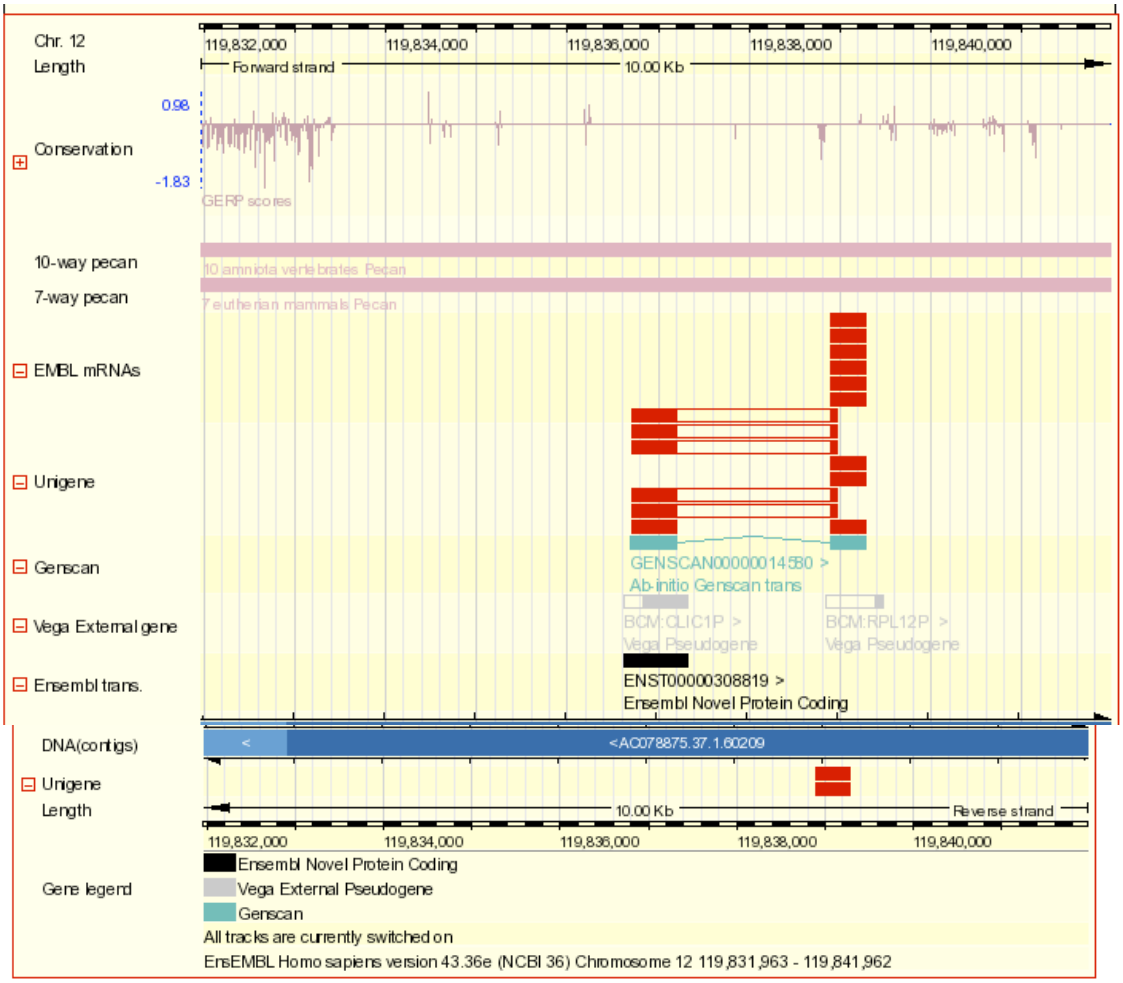
Gene legend
Ensembl Known Protein Coding
Vega External Known Protein coding
EST gene
Genscan
All tracks are currently switched on
EnsEMBL Homo sapiens version 43.36e (NCBI 36) Chromosome 15 53,218,668 - 53,318,667

(c) protein similar to chloride intracellular channel 1 (ENSP00000309706) (Human)

PR *(ENSP00000309706)*

[$P_{RFC} \leq 0.01$; Ka/Ks (PR-parent) = 0.44; Ka = 0.07; Ks = 0.16; no match to full-length cDNA]

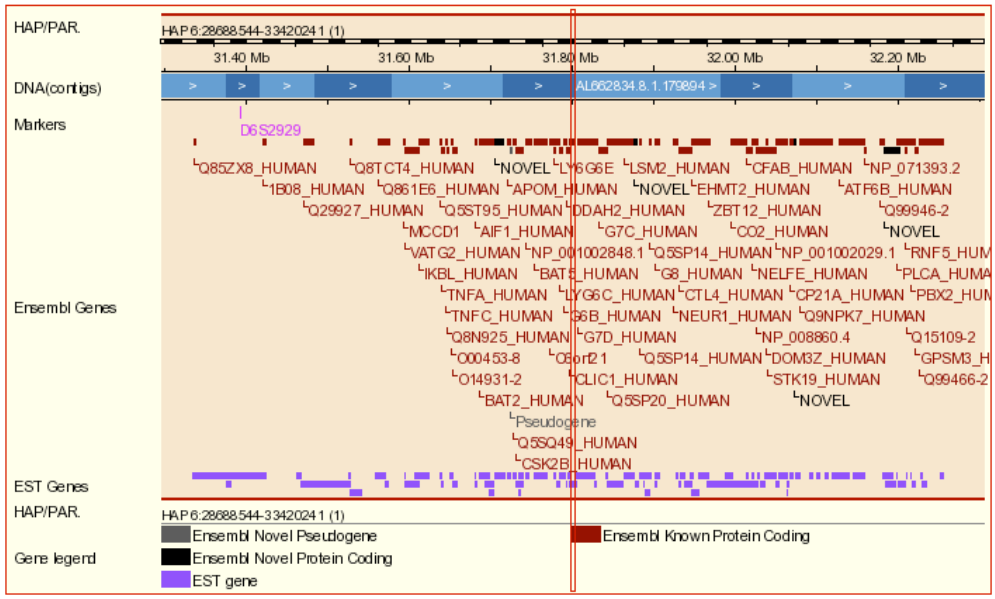




Parent

Chromosome c6_COX

Overview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ATF6B_HUMAN
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DDAH2_HUMAN
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Q99946-2
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CO2_HUMAN
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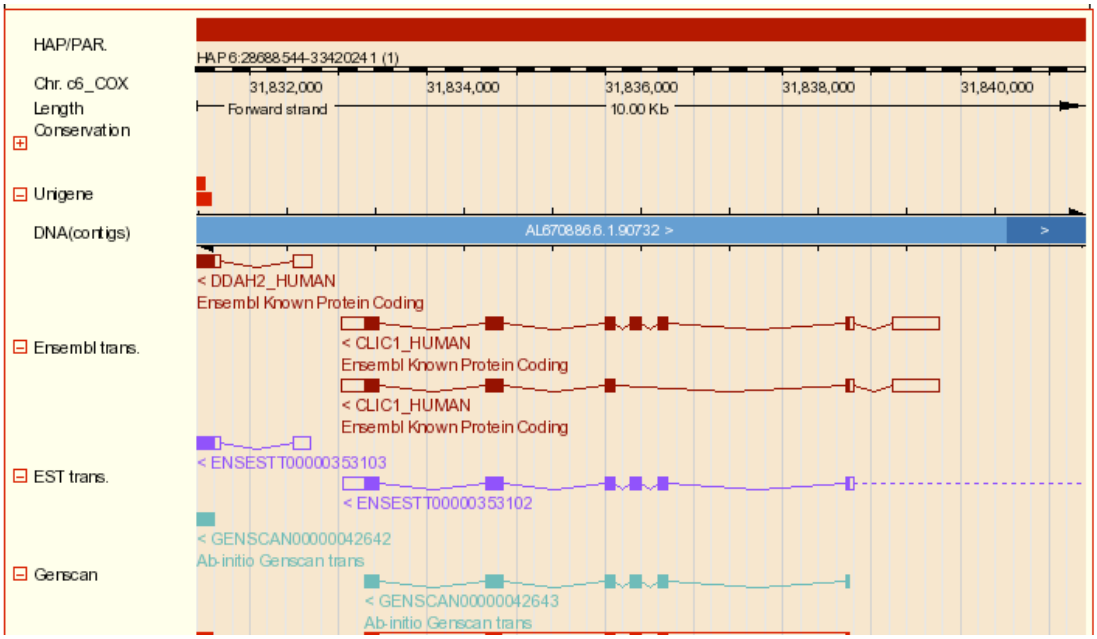
Gene legend
Ensembl Novel Pseudogene
Ensembl Known Protein Coding
Ensembl Novel Protein Coding
EST gene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Chr. c6_COX
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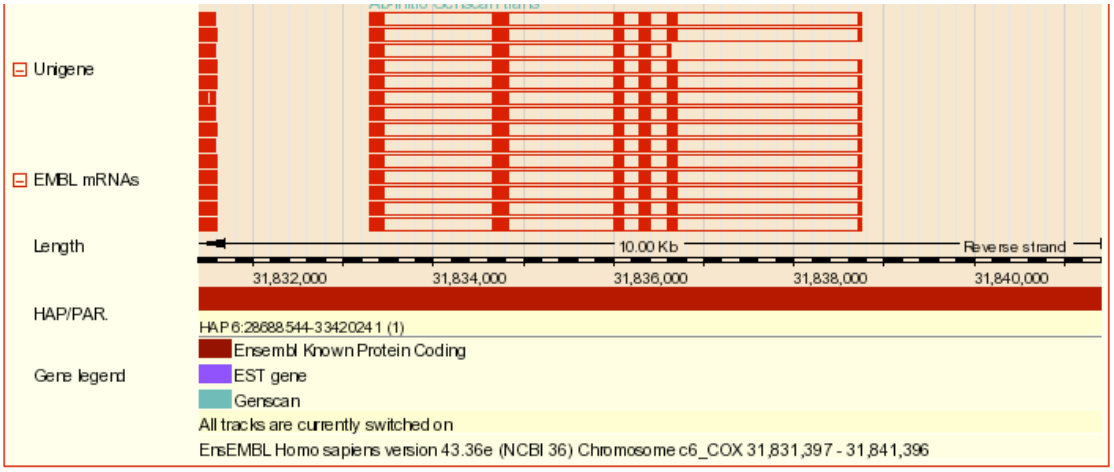

Supplementary Figure 4: Screenshots of three examples of PRs, along with their putative parents. (a) Mouse citrate synthase homolog (ENSMUSP00000052373); (b) Ribosomal protein L24-like homolog ENSP00000269477 (Human); (c) Homolog of chloride intracellular channel 1 (ENSP00000309706) (Human). These images were downloaded from http://www.ensembl.org in April 2007. For each PR, the following are given: the probability of reading-frame conservation (P_{RFC}); the PR-parent Ka/Ks value; the Ka and Ks values and an indication of whether there is a full-length cDNA match.