

SUPPLEMENTARY INFORMATION

Sequences and accession codes for platypus gene predictions discussed in the text. Ensembl codes correspond to the January 2007 gene build. Additional accession codes are provided in Table 1.

(1)

Pou2. GenBank entry XP_001520175.1

Pou5f1. GenBank entry ABU86919.1

(2)

enamelin. GenBank entry XP_001512296.1

ameloblastin. GenBank XP_001512321

(3)

Xanthine Dehydrogenase/oxidase (XDH) genes

ENSOANG00000014442

ENSOANG00000015165

ENSOANG00000002004

ENSOANG00000014836

ENSOANG00000014298

ENSOANG00000014299

ENSOANG00000014751

ENSOANG00000003947

ENSOANG00000003948

ENSOANG00000003950

ENSOANG00000012924

(4)

Natural killer receptor protein sequences

>Contig35681

CSSEGWEAFGGSCYLICETSQNCGGKQPKCKECSDCDREKHGTWNC SQRECS CNGADLVT
IDSKQELVSAPCLHLWPLENINKTDTRDHHCATIRHGNVSTASCNDTDTHNWICE

>Contig26325

CSLNWLEVLGTCFSFSAGTADWKESNTSCEVDGAILAMMTPQQMEILKTHVGSFTYWFGL
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>Ultra500.8

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HRQCKARRTECL

>Ultra500.7

CSSLKYHQGNCYLLSHRNRTWEDSRTYCASKNYVMLKVDNQEELAYINRNTNKIRWIGLS
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>Ultra500.6.1

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>Ultra500.6.2

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PRRQLGLGGEAGRFRGMVLEEKGNPLYSLQNFISQ

>Ultra437.17

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>Ultra271.3
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ICK

>Ultra117
CLKGTVKHLKCFLAFPEAKTYHEASEDCISRGGTLSTPQTGDENDGLYDYLRKTVGNEGE
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DKLPFICQ

>Contig8321
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RKWIWH

>Contig4675
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WSYWVGLTQDKCYGDWRWRDSTVPSS

>Contig27609
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>Contig6618
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>Contig11742
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RCACQ

>Contig1653.3
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>Contig1653.2
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LHWIYCK

>Contig1653.1
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>Contig8989
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RYICE

>Contig24609
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LRKKDSNQWKWVDGSTLSPEL

>Contig14318
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>Contig12615
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SRNARDLPLKWEDGSEVNSE

>Contig33372
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>Contig5962.1
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>Contig5962.2
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>Contig6405
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>Contig50169
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>Contig9506_CLECT.1
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>Contig30336_CLECT.1
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ALAAALGLAAGPGKGTIWLDEVRCQGGEASLRDCAAPWGRDTCGHKEDAAVNC

(7)

Vitellogenin II (Table 2). GenBank entry XP_001513824.1.

(8)

Organic solute transporter alpha genes (Table 2).

>Contig159089

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>Ultra462

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(9)

Short wavelength sensitive 2. GenBank entry ABN43075.1.

(10)

Indigoidine synthase A. GenBank entry XP_001518909.1.

(11)

Epididymal specific lipocalin 8

GTSARMNSALLISILGLIWANHAQSNVPFKKDFDLNKFSGFWYVIGMATDSEQLMAPKGEKKMAGSIVSVENGQ
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