

Table 4 Summary of experimental analyses of candidate noncoding transcripts

BDGP cDNA identifier <sup>a,b</sup>	Predicted exon number	Individual introns verified by RT-PCR	Curated transcript detected by end-to-end RT-PCR <sup>f</sup>	Lengths of transcripts detected on Northern blot <sup>g</sup>	Embryo <i>in situ</i> hybridization analysis	Affymetrix microarray <sup>k</sup>
<i>GM01028 (pncr013:4)</i>	2	1 of 1	Yes	0.7; 1.1; 2.3; 4 kb <sup>h</sup>	Maternal	+
<i>LD11162 (pncr001:3R)</i>	1			1.5	Zygotic	+
<i>RE28911 (pncr003:2L)</i>	5	4 of 4	Yes	1	Zygotic	+
<i>RH45340 (pncr006:X)</i>	3	2 of 2	Yes	0.4	Maternal, zygotic	+
<i>RH57193 (pncr009:3L)</i>	4	2 of 3	No	1	Maternal, zygotic	+
<i>AT24650 (pncr010:3L)</i>	3	2 of 2	Yes <sup>i</sup>	0.6 <sup>i</sup>	Not detected	+
<i>GH03576 (pncr011:3L)</i>	2	1 of 1	Yes	0.9	Not detected	+
<i>GH14469 (pncr012:2L)</i>	4	3 of 3	Yes	0.7; 1.1 <sup>h</sup>	Not detected	+
<i>LD13184 (pncr014:3L)</i>	1			2.2 <sup>i</sup>	Not detected	+
<i>LP03188 (pncr002:3R)</i>	2	1 of 1	Yes	0.6 <sup>i</sup>	Not detected	+
<i>LP12023 (pncr015:3L)</i>	1			0.3 <sup>i</sup>	Not detected	+
<i>RE54004 (pncr004:X)</i>	2	1 of 1	Yes	0.6	Not detected	+
<i>RE63504 (pncr005:2R)</i>	3	2 of 2	Yes	0.3	Not detected	+
<i>RH09485 (pncr016:2R)</i>	2	1 of 1	Yes	0.5	Not detected	+
<i>RH62830 (pncr008:3L)</i>	2	1 of 1	Yes	0.3	Not detected	+
<i>RH63361 (pncr007:3R)</i>	1			0.4	Not detected	+
<i>SD10988 (pncr017:3R)</i>	2	1 of 1	Yes	1.4	Not detected	+
<i>AT21289</i>	1			Not detected	Zygotic, subnuclear	+
<i>GH22170</i>	2	1 of 1	Yes	Not detected	Zygotic, subnuclear	+
<i>GM07040</i>	1			Not detected	Zygotic, subnuclear	+
<i>AT27057</i>	1			1.7	Maternal, zygotic	+
<i>GM02923</i>	1			9	Maternal, zygotic	+
<i>GM03003</i>	1			6; 9.5	Maternal, zygotic	+
<i>GM03914</i>	1			5	Maternal, zygotic	+
<i>GM07077</i>	1			4; doublet -9	Maternal, zygotic	+
<i>GM07658</i>	1			6	Zygotic	+
<i>GM09444</i>	1			>10	Zygotic	+
<i>GM09534</i>	1			8 <sup>i</sup>	Zygotic	+
<i>GM10787</i>	1			Multiple transcripts <sup>i</sup>	Zygotic	+
<i>LP11739</i>	3	2 of 2	Yes	8 <sup>i</sup>	Zygotic, subnuclear	+
<i>RE65113</i>	2	1 of 1	Yes	4	Zygotic	+
<i>RH62702</i>	1			>10	Zygotic	+
<i>SD04448</i>	2	1 of 1	Yes	6.5	Zygotic	+
<i>GH05108</i>	1			1.8; 2.8	Not detected	+
<i>GH08923</i>	1			5; 6	Not detected	+
<i>GH25505</i>	1			10	Not detected	+
<i>GH26692</i>	1			5; 6	Not detected	+
<i>GM01206</i>	2	0 of 1 <sup>d</sup>	No	6; 9	Not detected	+
<i>GM03661</i>	1			10	Not detected	+
<i>GM07660</i>	1			4	Not detected	+
<i>GM09668</i>	1			3.8	Not detected	+
<i>GM24362</i>	2	1 of 1	Yes	6; 8	Not detected	+
<i>HL05775</i>	1			7; 9	Not detected	+
<i>LD11130</i>	1			5, 5.5, 6	Not detected	+
<i>LP06491</i>	2	1 of 1 <sup>c</sup>	No	0.6	Not detected	+
<i>RE21847</i>	1			5	Not detected	+
<i>RE45760</i>	2	1 of 1	Yes	1.4	Not detected	-
<i>SD05379</i>	1			4.5	Not detected	+
<i>AT11392</i>	3	1 of 2	No	Not detected	Not detected	-
<i>AT31442</i>	2	1 of 1	Yes	Not detected	Not detected	+
<i>GH06385</i>	2	1 of 1	Yes	Not detected	Not detected	+
<i>LD23922</i>	6	4 of 5	No	Not detected	Not detected	+
<i>LD38553</i>	2	1 of 1	Yes	Not detected	Not detected	+
<i>RE66017</i>	2	1 of 1 <sup>e</sup>	No	Not detected	Not detected	+
<i>AT08427</i>	1			Not detected	Not detected	+
<i>AT13310</i>	1			Not detected	Not detected	+
<i>AT14266</i>	1			Not detected	Not detected	-
<i>AT22150</i>	2	0 of 1	No	Not detected	Not detected	+
<i>AT28783</i>	1			Not detected	Not detected	+
<i>GH05710</i>	1			Not detected	Not detected	+
<i>GH25188</i>	1			Not detected	Not detected	+
<i>GH26828</i>	1			Not detected	Not detected	+
<i>GH27201</i>	1			Not detected	Not detected	+
<i>GM04921</i>	1			Not detected	Not detected	+
<i>GM07702</i>	2	0 of 1	No	Not detected	Not detected	-
<i>GM12657</i>	2	0 of 1	No	Not detected	Not detected	+
<i>LD16711</i>	1			Not detected	Not detected	+
<i>LD28571</i>	1			Not detected	Not detected	+
<i>LD30889</i>	1			Not detected	Not detected	+
<i>LP01161</i>	1			Not detected	Not detected	+
<i>SD03144</i>	1			Not detected	Not detected	-
<i>SD25037</i>	2	0 of 1	No	Not detected	Not detected	-

<sup>a</sup> Candidates are grouped by experimental results: positive Northern and *in situ*; positive Northern and negative *in situ*; negative Northern and subnuclear *in situ* signal; positive Northern with transcript longer than cDNA and positive *in situ*; positive Northern with transcript longer than cDNA and negative *in situ*; positive RT-PCR only and negative Northern and *in situ*; no expression detected by RT-PCR, *in situ* or Northern.

<sup>b</sup> cDNA identifiers corresponding to *pncr* genes are italicized and gene names given in parentheses.

<sup>c</sup> Apparent splice site of RT-PCR product differs with curated cDNA.

<sup>d</sup> Splicing could not be verified by a RT-PCR experiment because intron the predicted by the GM01206 cDNA is not spliced in the overlapping transcript corresponding to the GM03003 cDNA.

<sup>e</sup> RT-PCR product appears to contain a splice junction not represented by curated cDNA.

<sup>f</sup> RT-PCR was primed by oligonucleotides corresponding to the 5'- and 3'-most predicted exons.

<sup>g</sup> Not detected: no discrete band was observed under conditions sufficient to detect positive control transcripts.

<sup>h</sup> Additional (longer) transcript species are detected.

<sup>i</sup> Transcript is not detected in embryo samples by Northern analysis, noted for purpose of comparison with *in situ* result.

<sup>j</sup> Complex profile of transcripts with mobilities ranging from 1.5 to >10 kb.

<sup>k</sup> +: Expression above background. -: Transcript not expressed above background.