

Table S1. Accession IDs for sequences in the Figure 4.

Species	Gene name	Database	Accession ID
human	<i>Bmp2</i>	Ensembl	ENSP00000368104
opossum	<i>Bmp2</i>	Ensembl	ENSMODP00000004813
chicken	<i>Bmp2</i>	NCBI	AY237249
<i>Xenopus tropicalis</i>	<i>Bmp2</i>	Ensembl	ENSXETP00000012124
zebrafish	<i>bmp2a</i>	Ensembl	ENSDARP00000013686
zebrafish	<i>bmp2b</i>	Ensembl	ENSDARP000000091255
stickleback	<i>bmp2b</i>	Ensembl	ENSGACP00000016506
medaka	<i>bmp2b</i>	Ensembl	ENSORLP00000012259
human	<i>Bmp4</i>	Ensembl	ENSP00000245451
<i>Xenopus tropicalis</i>	<i>Bmp4</i>	Ensembl	ENSXETP00000018837
opossum	<i>Bmp4</i>	Ensembl	ENSMODP00000016205
chicken	<i>Bmp4</i>	NCBI	X75915
zebrafish	<i>Bmp4</i>	Ensembl	ENSDARP000000069635
stickleback	<i>Bmp4</i>	Ensembl	ENSGACP00000013699
medaka	<i>Bmp4</i>	Ensembl	ENSORLP00000016673
zebrafish	<i>bmp16</i>	Ensembl	ENSDARP000000089197
stickleback	<i>bmp16</i>	Ensembl	ENSGACP00000012690
<i>Tetraodon nigroviridis</i>	<i>bmp16</i>	Ensembl	ENSTNIP00000010567
<i>Takifugu rubripes</i>	<i>bmp16</i>	Ensembl	ENSTRUP00000029004
<i>Petromyzon marinus</i>	<i>PmBmp2/4-A</i>	NCBI	AY602220
<i>Petromyzon marinus</i>	<i>PmBmp2/4-B</i>	NCBI	AY602221
<i>Petromyzon marinus</i>	<i>PmBmp2/4-C</i>	NCBI	AY602222
<i>Ciona intestinalis</i>		Ensembl	ENSCINP00000003062
<i>Halocynthia roretzi</i>	<i>dpp homolog</i>	NCBI	D85464
<i>Branchiostoma floridae</i>	<i>AmphiBmp2/4</i>	NCBI	AF068750
<i>Ptychodera flava</i>	<i>Pf-Bmp2/4</i>	NCBI	AB028219
<i>Saccoglossus kowalevskii</i>	<i>Bmp2/4</i>	NCBI	DQ431030