

<b>Element (hg18 coords)</b>	<b>Target gene</b>	<b>Observed depth of conservation</b>	<b>Invertebrate hits where gene synteny can be shown</b>
chr10:131574504-131574704	EBF3	Chordate	Amphioxus
chr8:37652008-37652247	ZNF703	Deuterostome	Amphioxus, Acorn Worm
chr4:4909505-4909664	MSX1	Deuterostome	Amphioxus, Sea urchin
BICORE1 chr20:29655765-29655862	ID1	Bilaterian	Amphioxus, Sea urchin, Acorn worm, Owl limpet, Sea hare
BICORE2 chr10:76832334-76832433	ZNF503	Bilaterian	Amphioxus, Sea urchin, Acorn worm, Tick

**Table S2.**