

Table S4 Comparative gene order of the mapped genes at the main SD region of turbot with regard to model Acanthopterygii fish genomes

LG5 CONSENSUS MAP TURBOT		LGVIII STICKLEBACK		LG4 MEDAKA		LG1 TETRAODON		LG20 FUGU	
<i>dnaj19</i>	16.3 cM	<u><i>fxr1</i></u>	6,06 Mb	<i>dlg1</i>	19,12 Mb	<i>dlg1</i>	21,329 Mb	<u><i>fxr1</i></u>	Sc. 351: 111 Kb
<u><i>fxr1</i></u>	16.5cM	<i>dnaj19</i>	6,06Mb	<i>fkbp2</i>	19,14 Mb	<i>fkbp2</i>	21,343 Mb	<i>dnaj19</i>	Sc. 351: 124 Kb
(SmaUSC-E30)									
<i>atp11b</i>	17.6 cM	<i>sox2</i>	6,15 Mb	<i>ncbp2</i>	19,14 Mb	<i>ncbp2</i>	21,345 Mb	<i>sox2</i>	Sc. 351: 191 Kb
<i>sox2</i>	17.9cM	<i>atp11b</i>	6,32 Mb	<u><i>cp</i></u>	19,30 Mb	<u><i>cp</i></u>	21,403 Mb	<i>atp11b</i>	Sc. 347: 67 Kb
<i>fkbp2</i>	18.7 cM	<i>dlg1</i>	6,55 Mb	<i>atp11b</i>	19,59 Mb	<i>atp11b</i>	21,551 Mb	<u><i>cp</i></u>	Sc. 55: 45 Kb
<i>ncbp2</i>	19.0cM	<i>fkbp2</i>	6,56 Mb	<i>sox2</i>	19,85 Mb	<i>sox2</i>	21,666 Mb	<i>ncbp2</i>	Sc. 55: 121 Kb
<i>dlg1</i>	19.5 cM	<i>ncbp2</i>	6,57 Mb	<i>dnaj19</i>	19,99 MbSI	<i>dnaj19</i>	21,726 Mb	<i>fkbp2</i>	Sc. 55: 125 Kb
<u><i>cp</i></u>	19.5 cM	<u><i>cp</i></u>	6,64 Mb	<u><i>fxr1</i></u>	19,99 Mb	<u><i>fxr1</i></u>	21,728 Mb	<i>dlg1</i>	Sc.55: 139 Kb
(SmaSNP31)									

atp11b (ATPase, class VI, type 11B), *cp* (ceruloplasmin), *dlg1* (discs, large (Drosophila) homolog 1), *dnaj19* (DnaJ (Hsp40) homolog, subfamily C, member 19), *fkbp2* (FK506 binding protein 2, 13kDa), *fxr1* (fragile X mental retardation, autosomal homolog 1), *ncbp2* (nuclear cap binding protein subunit 2, 20kDa), *sox2* (SRY (sex determining region Y)-box 2).