

	gene/entry		gene/entry		
Hs	<i>aldh1a1</i> <i>aldh1a2</i> <i>aldh1a3</i> <i>aldh1b1</i> <i>aldh2</i>	P00352.2 O94788 P47895 P30837 P05091	<i>thra</i> <i>thrb</i> <i>rara</i> <i>rarb</i> <i>rarg</i> <i>rxra</i> <i>rxrb</i> <i>rxrg</i>	P10827 P10828 P10276 P10826 P13631 P19793 P28702 P48443	Hs; <i>Homo sapiens</i> (Human)
Mm	<i>aldh1a1</i> <i>aldh1a2</i> <i>aldh1a3</i> <i>aldh1b1</i> <i>aldh2</i>	P24549 Q62148 Q9JHW9 Q9CZS1 P47738	<i>thra</i> <i>thrb</i> <i>rara</i> <i>rarb</i> <i>rarg</i> <i>rxra</i> <i>rxrb</i> <i>rxrg</i>	P63058 P37242 P11416 P22605 P18911 P28700 P28704 P37238	Mm; <i>Mus musculus</i> (Mouse)
Xt	<i>aldh1a1</i> <i>aldh1a2</i> <i>aldh1a3</i> <i>aldh1b1</i> <i>aldh2</i>	Q4VBE1 Q9DEX5 F7BV06 F7DQF8 Q6DJ49			Xt; <i>Xenopus tropicalis</i> (Western clawed frog)
Dr	<i>aldh1a2</i> <i>aldh1a3</i> <i>aldh2a</i> <i>aldh2b</i>	Q90XS8 Q0H2G3 Q8QGQ2 Q6TH48	<i>thraa</i> <i>thrab</i> <i>thrb</i> <i>raraa</i> <i>rarab</i> <i>rarga</i> <i>rargb</i>	Q98867 U3JAT9 Q9PVE4 Q90271 Q7ZTI3 Q91392 A2T928	Dr; <i>Danio rerio</i> (Zebrafish)
Bf	<i>aldh1a_1</i> <i>aldh1a_2</i>	C3ZGK4 C3ZG63	<i>rxr</i>	Q8MX78	Bf; <i>Branchiostoma floridae</i> (Florida lancelet) (Amphioxus)
Bl			<i>rar</i>	O18608	Bl; <i>Branchiostoma lanceolatum</i> (Common lancelet)
Ci	<i>aldh1a_1</i> <i>aldh1a_2</i> <i>aldh1a_3</i> <i>aldh2</i>	A0A1W2WB51 A0A1W5BCT1 A0A1W2WDC1 A0A1W5B7N8	<i>rar</i> <i>rxr</i>	Q4H2W1 Q4H2U9	Ci; <i>Ciona intestinalis</i> (Transparent sea squirt)
Pm			<i>rxr</i>	K7ZLP3	Pm; <i>Polyandrocarpa misakiensis</i> (Tunicate)
Sk	<i>aldh1a_1</i> <i>aldh1a_2</i> <i>aldh1a_3</i> <i>aldh1a_4</i> <i>aldh1a_5</i> <i>aldh2</i>	XP_006823779.1 XP_006822197.1 XP_002736989.1 XP_002731204.1 XP_006824634.1 XP_006816163.1	<i>rar</i> <i>rxr</i>	XP_002742241.1 D2XNK4	Sk; <i>Saccoglossus kowalevskii</i> (Acorn worm)
Sp	<i>aldh2_1</i> <i>aldh2_2</i>	SPU_007284 SPU_023801	<i>thr</i> <i>rar</i> <i>rxr</i>	SPU_025239 SPU_016523 SPU_028422	Sp; <i>Strongylocentrotus purpuratus</i> (Purple sea urchin)
Pp	<i>raldha</i> <i>raldha</i> <i>raldha</i> <i>aldh2</i>	LC379260 LC379261 LC379262 *	<i>rar</i> <i>rxr</i> <i>thr</i>	LC379258 LC379259 *	Pp; <i>Patiria pectinifera</i> (starfish)
Dm			<i>usp</i>	P20153	Dm; <i>Drosophila melanogaster</i> (Fruit fly)
Rc			<i>rar</i> <i>rxr</i>	T2HRZ4 E9RHD8	Rc; <i>Reishia clavigera</i> (Sea snail)
Ls			<i>rar</i> <i>rxr</i>	D5LIR6 Q5I7G2	Ls; <i>Lymnaea stagnalis</i> (Great pond snail)
Tc			<i>rxr</i>	O96562	Tc; <i>Tripedalia cystophora</i> (Jellyfish)

* Sequences were not deposited to databank but available from supplementary dataset 1 or 2 of this work.