

# **Molecular Cloning and Functional Characterization of Three 5-HT Receptor Genes (HTR1B, HTR1E, and HTR1F) in Chickens**

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## Supplementary Materials

**Table S1. Primers used in this study.**

Gene	Primer name	Primer sequences (5'-3')
<i><sup>a</sup>Primer for cloning the coding regions</i>		
<i>cHTRIB</i>	U1	CGGAATTCATGGAGCCGGCGAGCCCC
	L1	GCTCTAGATCAGCCTGTGCAGCGGAA
<i>cHTR1E</i>	U1	GGGGTACCATGTGCATCCTGGAGGGG
	L1	GCTCTAGATTAAGTATGTTCTCTACA
<i>cHTR1F</i>	U1	CGGAATTCAACATGGATTTAATAAAC
	L1	GCTCTAGACTCTTAAAGATATTGCCT
<i><sup>a</sup>Primer for quantitative RT-PCR assays</i>		
<i>cHTRIB</i>	U1	GGGGAAAAGACTGACTCGGG
	L1	GTCTTTGTCGCTTTCCGCTC
<i>cHTR1E</i>	U1	AGCAAGTGACCACCTTTGGG
	L1	AAGTAGCTGCTTTGGGTAGCA
<i>cHTR1F</i>	U1	CACGTCACATTCGCTCCTCT
	L1	GTCCCTTCCTTTGCTACCCCG
<i>cPRL</i>	U1	CCATTCTCTGGAAGGCTGTAGA
	L1	CTGGAGTCCTCATCAGCGAGTT
<i>β-actin</i>	U1	CCCAGACATCAGGGTGTGATG
	L1	GTTGGTGACAATACCGTGTTCAT

**Table S2. Lists of genes and their GenBank accession numbers used in amino acid sequence alignment.**

	Chicken	Zebra finch	Duck	<i>Xenopus tropicalis</i>	Mouse	Human
HTR1B	XP_015140120.1	XP_002190169.2	XP_005017926.2	XP_002936251.2	NP_034612.1	NP_000854.1
HTR1E	MK139005	XP_032603125.1	XP_005013102.1	XP_002933964.1	-	NP_000856.1
HTR1F	MK139006	XP_002191608.1	XP_005017708.2	XP_002931817.1	NP_032336.1	NP_000857.1

**Table S3. Lists of genes and their GenBank accession numbers used to generate the phylogenetic tree in this study.**

Gene names	Species	GenBank accession numbers
HTR1B	Chicken	XP_015140120.1
	Turkey	XP_010725582.1
	Duck	XP_005017926.2
	Zebra finch	XP_002190169.2
	Lizard	XP_034966577.1
	Pig	NP_999463.1
	Human	NP_000854.1
	Monkey	XP_008004603.1
	Mouse	NP_034612.1
	Rat	NP_071561.1
	<i>Xenopus tropicalis</i>	XP_002936251.2
HTR1E	Coelacanth	XP_006012936.1
	Chicken	MK139005
	Turkey	XP_019468658.1
	Duck	XP_005013102.1
	Zebra finch	XP_032603125.1
	Lizard	XP_034965333.1
	Pig	XP_013848119.2
	Human	NP_000856.1
	Monkey	XP_008004718.1
	<i>Xenopus tropicalis</i>	XP_002933964.1
	Coelacanth	XP_006009258.1
HTR1F	Chicken	MK139006
	Turkey	XP_003202888.1
	Duck	XP_005017708.2
	Zebra finch	XP_002191608.1
	Lizard	XP_034971820.1
	Pig	NP_999266.1
	Human	NP_000857.1
	Monkey	XP_037859109.1
	Mouse	NP_032336.1
	Rat	NP_068629.2
	<i>Xenopus tropicalis</i>	XP_002931817.1
	Coelacanth	XP_006011232.1