

Product datasheet for **SC111748**

Sigma1 receptor (SIGMAR1) (NM_005866) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Sigma1 receptor (SIGMAR1) (NM_005866) Human Untagged Clone
Tag:	Tag Free
Symbol:	Sigma1 receptor
Synonyms:	ALS16; DSMA2; hSigmaR1; OPRS1; SIG-1R; sigma1R; SR-BP; SR-BP1; SRBP
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene sequence for NM_005866, RT-PCR generated ATGCCGTGGGCCGTGGGCCGGTGGGCGTGGGCCGCGCTGCTCCTGGCTGTCGCAGCG GTGCTGACCCAGGTCGTCTGGCTCTGGCTGGGTACGACAGAGCTTCGTCTCCAGCGCGAA GAGATAGCGCAGTTGGCGCGCAGTACGCTGGGCTGGACCACGAGCTGGCCTTCTCTCGT CTGATCGTGGAGCTGCGGCGGCTGCACCCAGGCCACGTGCTGCCGACGAGGAGCTGCAG TGGGTGTTCTGAATGCGGGTGGCTGGATGGGCGCCATGTGCCTTCTGCACGCCTCGCTG TCCGAGTATGTGCTGCTTTCGGCACCGCCTTGGGCTCCCGCGGCCACTCGGGCGCTAC TGGGCTGAGATCTCGGATACCATCATCTCTGGCACCTTCCACCAGTGGAGAGAGGGCACC ACCAAAAGTGAGGTCTTCTACCCAGGGGAGACGGTAGTACACGGGCTGGTGGGCAACA GCTGTGGAGTGGGGCCAAACACATGGATGGTGGAGTACGGCCGGGGCGTCATCCCATCC ACCCTGGCCTTCGCGCTGGCCGACACTGTCTTCAGCACCCAGGACTTCTCACCTCTTC TATACTCTTCGCTCCTATGCTCGGGCCTCCGGCTTGAGCTCACCACTACCTCTTGGC CAGGACCCTTGA



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5' Read Nucleotide Sequence:	>OriGene 5' read for NM_005866 unedited GGCGAGCCTACAGTATTTGTAACGACTCACGTCTGGCGGCCGCCACGTGTGATGGAATC TGCAGAAATCGGCTTATGCCGTGGGCCGTGGGCCGGCGTGGGCGTGGGCCGCGTCTCC TGGCTGTGCGACGGTGTGACCCAGGTCGTCTGGCTCTGGCTGGGTACGCAGAGTTCCG TCTTCCAGCGCAAGAGATAGCCGAGTTGGCGCGTAGTACGCTGGGCTGGACCACGAGC TGGCGCTTCTCTCGTCTGATCGTGGAGCTGCGGCCGTGCACCCAGGCCACGTGTGCC GACGAGGAGCTGCAATGGGTGTTCTGTAATGCGGGTGGCTGGATGGGCGCCATGTGCCTT CTGCACGCTCGCTGTCCGAGTATGTGCTGCTCTTCGGCACCCGCTTGGGCTCCCGCGGC CACTCGGGCGCTACTGGGCTGAGATCTCGGATACCATCATCTCTGGCACCTTCCACCAG TGGAGAGAGGGCACCACAAAAGTGAAGTCTTCTACCCAGGGGAGACGGTAGTACACGGG CCTGGTGAAGCAACAGCTGTGGAGTGGGGGCCAAACACATGGATGGTGGAGTACGGCCGG GGCGTCATCCCATCCACCCTGGCCTTGGGCTGGCCGACACTGTCTTCCAGACCCAGGAC TTCCTCACCTTCTATACTCTCGCTCCTATGCTCGGGGGCCTCCCGGCTGGAGCTCA CCACCTACCTCTTGGCCAGGACCTTGGACCAGCCAGAACCGAATCCAACACAGTGGC GGCCGTTACTAGTGGGACCCGAGCTCTGTGCCGATATCAAAGCTGGGCGACTCTAGATT GCGGCCCCGGTCATACCTGTTTTCTGGACAGATCCCGGGGTGCAATA
Restriction Sites:	Please inquire
ACCN:	NM_005866
Insert Size:	1700 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
Components:	The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).
Reconstitution Method:	<ol style="list-style-type: none"> 1. Centrifuge at 5,000xg for 5min. 2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA. 3. Close the tube and incubate for 10 minutes at room temperature. 4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom. 5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.
RefSeq:	NM_005866.2 , NP_005857.1
RefSeq Size:	1655 bp
RefSeq ORF:	672 bp
Locus ID:	10280
UniProt ID:	Q99720
Cytogenetics:	9p13.3
Domains:	ERG2_Sigma1R
Protein Families:	Druggable Genome, GPCR, Transmembrane

Gene Summary:

This gene encodes a receptor protein that interacts with a variety of psychotomimetic drugs, including cocaine and amphetamines. The receptor is believed to play an important role in the cellular functions of various tissues associated with the endocrine, immune, and nervous systems. As indicated by its previous name, opioid receptor sigma 1 (OPRS1), the product of this gene was erroneously thought to function as an opioid receptor; it is now thought to be a non-opioid receptor. Mutations in this gene has been associated with juvenile amyotrophic lateral sclerosis 16. Alternative splicing of this gene results in transcript variants encoding distinct isoforms. [provided by RefSeq, Aug 2013]

Transcript Variant: This variant (1) encodes the longest isoform (1).