

Product datasheet for RC236161

Sigma1 receptor (SIGMAR1) (NM_001282208) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Sigma1 receptor (SIGMAR1) (NM_001282208) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: SIGMAR1
Synonyms: ALS16; DSMA2; hSigmaR1; OPRS1; SIG-1R; sigma1R; SR-BP; SR-BP1; SRBP
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RC236161 representing NM_001282208
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGCAGTGGGCCGTGGCCGGCGGTGGGCGTGGGCGCGCTGCTCCTGGCTGTCGCAGCGGTGCTGACCC
 AGGTCGCTGGCTCTGGCTGGGTACGCAGAGCTTCGTCTCCAGCGCGAAGAGATAGCGCAGTTGGCGCG
 GCAGTACGCTGGGCTGGACCAGAGCTGGCCTTCTCTCGTCTGATCGTGGAGCTGCGGCGGCTGCACCCA
 GGCCACGTGCTGCCCGACGAGGAGCTGCAGTGGGTGTTTCGTGAATGCGGGTGGCTGGATGGCGCCATGT
 GCCTTCTGCACGCCTCGCTGTCCGAGTATGTGCTGCTTTCGGCACCGCCTTGGGCTCCCGCGGCCACTC
 GGTGTCATGTGCGATTGTCACTCAGGGCGCTACTGGGCTGAGATCTCGGATACCATCATCTCTGGCACCT
 TCCACAGTGGAGAGAGGGCACCACCAAAAGTGAGGTCTTCTACCCAGGGGAGACGG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC236161 representing NM_001282208
 Red=Cloning site Green=Tags(s)

MQWAVGRRWAWAALLLAVAAVL TQVVWLWLTQSFVVFQREEIAQLARQYAGLDHELAFSRLIVELRRLHP
 GHVLPDEELQWVFNAGGWMGAMCLLHASLSEYVLLFGTALGSRGHSVSCAIVTQATGLRSRIPSSLAP
 STSGERAPPKVRSTQGRR

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-MluI

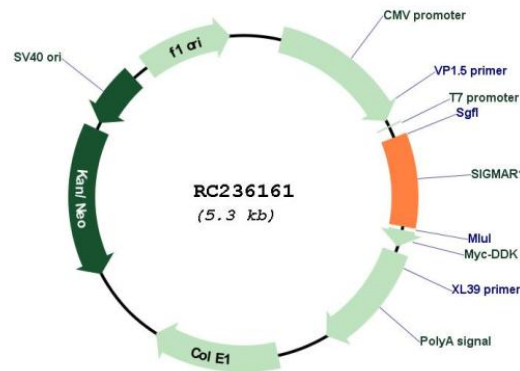


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Cloning Scheme:



Plasmid Map:



ACCN: NM_001282208

ORF Size: 477 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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:	<u>NM_001282208.1, NP_001269137.1</u>
RefSeq Size:	1751 bp
RefSeq ORF:	480 bp
Locus ID:	10280
UniProt ID:	<u>Q99720</u>
Cytogenetics:	9p13.3
Protein Families:	Druggable Genome, GPCR, Transmembrane
MW:	18 kDa
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]