

Product datasheet for SC100278

OriGene Technologies, Inc.

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Sigma1 receptor (SIGMAR1) (NM_147157) Human Untagged Clone

Product data:

Product Type: Expression Plasmids

Product Name: Sigma1 receptor (SIGMAR1) (NM_147157) 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: pCMV6-XL6

E. coli Selection: Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene ORF sequence for NM_147157 edited

CTTGAGCTCACCACCTACCTCTTTGGCCAGGACCCTTGA

Restriction Sites: Please inquire
ACCN: NM_147157
Insert Size: 1900 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).

OTI Annotation: The ORF of this clone has been fully sequenced and found to be a perfect match to

NM 147157.1.

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:

- 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 147157.1</u>, <u>NP 671513.1</u>

 RefSeq Size:
 1580 bp

 RefSeq ORF:
 579 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 (2) lacks an in-frame exon in the central coding region, compared to variant 1. The encoded isoform (2) is shorter, compared to isoform 1.