

Product datasheet for **RG236161**

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: TurboGFP
Symbol: SIGMAR1
Synonyms: ALS16; DSMA2; hSigmaR1; OPRS1; SIG-1R; sigma1R; SR-BP; SR-BP1; SRBP
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG236161 representing NM_001282208.
 Blue=ORF Red=Cloning site Green=Tag(s)

```
GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGCAGTGGGCCGTGGCCGGCGGTGGCGTGGCCCGCGTCTCTGGCTGTTCGACGGGTGCTGACC
CAGGTCGTCTGGCTCTGGCTGGGTACGCAGAGCTTCGTCTCCAGCGCAAGAGATAGCGCAGTTGGCG
CGGCAGTACGCTGGCTGGACCACGAGCTGGCCTTCTCTCGTCTGATCGTGGAGCTGCGCGGCTGCAC
CCAGGCCAGTGTGCCGACGAGGAGCTGCAGTGGGTGTTTCGTGAATGCGGGTGGCTGGATGGGCGCC
ATGTGCCTTCTGCACGCCTCGTGTCCGAGTATGTGCTGCTCTTCGGCACCGCCTGGGCTCCCGCGC
CACTCGGTGTATGTGCGATTGCACTCAGGGCGCTACTGGGCTGAGATCTCGGATACCATCATCTCTG
GCACCTTCCACCAGTGGAGAGAGGGCACCAAAAGTGAGGTCTTCTACCCAGGGGAGACGG
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
```

Protein Sequence: >Peptide sequence encoded by RG236161
 Blue=ORF Red=Cloning site Green=Tag(s)

```
MQWAVGRRWAWAALLLAVA AVL TQVVWLWLTQSFVVFQREEIAQLARQYAGLDHELAFSRLIVELRRHL
PGHVL PDEELQWVFNAGWGMGAMCLLHASLSEYVLLFTGALGSRGHSVSCAIVTQATGLRSRIPSSL
APSTSGERAPPKVRSSSTQGR
TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV
MGYGFYHFGTYPSTYENPFLHAINNGGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED
SVIFTDKIIRSNATVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVD SHMHFKSAIHPSILQNGGPMFA
FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV
```

Restriction Sites: SgfI-MluI

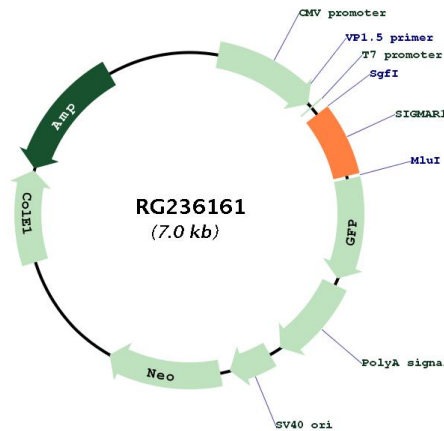


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Cloning Scheme:



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).
RefSeq:	NM_001282208.1 , NP_001269137.1
RefSeq Size:	1751 bp
RefSeq ORF:	480 bp
Locus ID:	10280
UniProt ID:	Q99720
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]