

Product datasheet for MC214962

Sgpp2 (NM_001004173) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Sgpp2 (NM_001004173) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Sgpp2
Synonyms:	Spp2; SPPase2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>MC214962 representing NM_001004173 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGCCGAACCTGCTGCGGAGCCTGCGGGATTCACAGCTCGTGCGCGCTTCCAGCGCCGCTGCGGGCTCT
TCCCAGCGCGGGAGGCTTCTGGAGAGGAGCATGTGGTGAAGAATTATTTCTACTATTACCTGTTCCGGTT
TTCAGCCGCTTTGGGCCAGGAAGTGTCTACATCACGTTTCTCCCTTTCACCCACTGGAATATCGACCT
AATTTGTCGAGAAGATTGGTTGTGATATGGTTTTGGTGTATATTGGCCAGGTGGCCAAGGACATCC
TGAAGTGGCCCCGGCCCTCTTCTCCGTTGTGAGACTTGAAAAGAGAATTATTGCAGAGTACGGAAT
GCCATCCACCCACGCCATGGCGGCCACCGCCATCTCCTTACCCTCCTCATCTCTACCATGGACCGGAT
CAGTACCTTTTCATTTTAGGCCTGATGATGGCTGTGGTGTCTCTACGCTGGTGTGTCTCAGCAGACTCT
ACACGGGGATGCACACGGTCTGGATATCTGGGTGGCGTTCTGATCACTGCAGTCTCATTGCTGTGAC
CTACCCTGCCTGGACCTCATCGATTCCCTGGACTCTGCCAGCCCCCTTCCCTGTGTGTGCATAGTT
GTACCGTTCTCTGTGCTACAATTACCCTGTGTCTGACTACTACAGCCCAGCAGGGCAGACACCA
CCATCGTGGCTGCTGGGGCTGGAGTGACCCTGGGATTCTGGATCAACATTTCTTCCAGCTCGTGTCCAA
GCCACCCCATCTTCTGTGCTCATTGAAATCCCACCCCTTACCACTGACATGCTGGTTTTAGGTCTG
ACCAAATTTATGGTGGGAATCATGTTGATCCTCTTGGTTCGCAACTGGTGCAAAAAGCTCTCCCTGCAAG
TATTATTCTCATGGTTCAAGGTGGTACTAGGAACAAGGAGGCCAGGCGAAGACTAGAGATTGAAGTCCC
TTACAAGTTTGTACCTACACATCTGTTGGCATCTGTGCCACAACCTTTGTGCCAATGTTGCACAGGTTT
TTGGGATTGCT**TGA**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI



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ACCN:	NM_001004173
Insert Size:	1065 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_001004173.2 , NP_001004173.1
RefSeq Size:	3998 bp
RefSeq ORF:	1065 bp
Locus ID:	433323
UniProt ID:	Q810K3
Cytogenetics:	1 C4
Gene Summary:	Has specific phosphohydrolase activity towards sphingoid base 1-phosphates. Has high phosphohydrolase activity against dihydrosphingosine-1-phosphate and sphingosine-1-phosphate (S1P) in vitro (Probable). Sphingosine-1-phosphate phosphatase activity is needed for efficient recycling of sphingosine into the sphingolipid synthesis pathway (By similarity). May play a role in attenuating intracellular sphingosine 1-phosphate (S1P) signaling. May play a role in pro-inflammatory signaling (By similarity). Plays a role in the regulation of pancreatic islet beta-cell endoplasmic reticulum stress and proliferation (PubMed:27059959). [UniProtKB/Swiss-Prot Function]