

Product datasheet for **SC319400**

nSMase (SMPD2) (NM_003080) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	nSMase (SMPD2) (NM_003080) Human Untagged Clone
Tag:	Tag Free
Symbol:	nSMase
Synonyms:	ISC1; NSMASE; NSMASE1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

Fully Sequenced ORF: >OriGene sequence for NM_003080.2
 GGCCCTTACCGAGCTGGGCGCCCGGATTCGGCAGCGGATCGCCTTCCGGGTTGGCGG
 CCCGCCTGATTGGGAACAGCCGGCCGGTTGCCGGGGAAACGCGGGAGTCGGGCCCGACCT
 GAGCCACGCGGGCTTGGTGCCACCTGTGCGCGCCGCCTGCGAAGAAGGAACGGTCTAGG
 GAGAAGGCGCCGCGCCGCCCGCCCGTCCCACCGCGCCGTCGCTGGAGAGTTCGAGCCG
 CCTAGCGCCCTGGAGCTCCCCAACCATGAAGCCAACTTCTCCCTGCGACTGCGGATCT
 TCAACCTCAACTGCTGGGGCATTCCGTACTTGAGCAAGCACCGGGCCGACCGCATGAGGC
 GCCTGGGAGACTTCTGAACCAGGAGAGCTTCGACCTGGCTTTGCTGGAGGAGGTGGA
 GTGAGCAGGACTTCCAGTACCTGAGACAGAAGCTGTACCTACCTACCCAGCTGCACACC
 ACTTCCGGAGCGGAATCATTGGCAGTGGCCTCTGTGTCTTCTCCAAACATCCAATCCAGG
 AGCTTACCAGCACATCTAACTCTCAATGGCTACCCCTACATGATCCATCATGGTGACT
 GGTTCACTGGGAAGGCTGTGGGGCTGCTGGTGTCCATCTAAGTGGCATGGTGTCAACG
 CCTATGTGACCCATCTCCATGCCGAATACAATCGACAGAAGGACATCTACCTAGCACATC
 GTGTGGCCCAAGCTTGGGAATTGGCCAGTTCATCCACCACACATCCAAGAAGGCAGACG
 TGTTCTGTTGTGTGGAGACCTCAACATGCACCCAGAAGACCTGGGCTGCTGCCTGCTGA
 AGGAGTGGACAGGGCTTCATGATGCCTATCTTGAACCTCGGGACTTCAAGGGCTCTGAGG
 AAGGCAACACAATGGTACCCAAGAACTGCTACGTGAGCCAGCAGGAGCTGAAGCCATTTT
 CCTTTGGTGTCCGATTGACTACGTGCTTTACAAGGCAGTTTCTGGGTTTACATCTCCT
 GTAAGAGTTTTGAAACCACTACAGGCTTTGACCCTCACAGTGGCACCCCCCTCTCTGATC
 ATGAAGCCCTGATGGCTACTCTGTTTGTGAGGCACAGCCCCACAGCAGAACCCAGCT
 CTACCCACGGACCAGCAGAGAGGTGCGCGTTGATGTGTGTGCTAAAGGAGGCCTGGACGG
 AGCTGGGTCTGGGCATGGCTCAGGCTCGCTGGTGGGCCACCTTCGCTAGCTATGTGATTG
 GCCTGGGGCTGCTTCTCCTGGCACTGCTGTGTGCTGGCGGCTGGAGGAGGGCCCGGGG
 AAGCTGCCATACTGCTCTGGACCCCAAGTGTAGGGCTGGTGTGCTGGGCAGGTGCATTCT
 ACCTCTTCCACGTACAGGAGGTCAATGGCTTATATAGGGCCAGGCTGAGCTCCAGCATG
 TGCTAGGAAGGGCAAGGGAGGCCAGGATCTGGGCCAGAGCCTCAGCCAGCCCTACTCC
 TGGGGCAGCAGGAGGGGGACAGAATAAAGAACAATAAAGCTTGGCCCTTAAAAAAAAA
 AAAAAAAAAAAAAAAAAA

Restriction Sites: Please inquire

ACCN: NM_003080

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: This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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: [NM_003080.2](#), [NP_003071.2](#)

RefSeq Size: 1697 bp

RefSeq ORF: 1272 bp

Locus ID: 6610

UniProt ID: [O60906](#)

Cytogenetics: 6q21

Domains: Exo_endo_phos

Protein Families: Transmembrane

Protein Pathways: Metabolic pathways, Sphingolipid metabolism

Gene Summary: This gene encodes a protein which was initially identified as a sphingomyelinase based on sequence similarity between bacterial sphingomyelinases and a yeast protein. Subsequent studies showed that its biological function is less likely to be as a sphingomyelinase and instead as a lysophospholipase. [provided by RefSeq, Oct 2009]