

Product datasheet for **SC329120**

SMPD4 (NM_001171083) Human Untagged Clone

Product data:

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|---------------------------|--------------------------------------------------|
| Product Type: | Expression Plasmids |
| Product Name: | SMPD4 (NM_001171083) Human Untagged Clone |
| Tag: | Tag Free |
| Symbol: | SMPD4 |
| Synonyms: | NEDMABA; NEDMEBA; NET13; NSMASE-3; NSMASE3; SKNY |
| Mammalian Cell Selection: | None |
| Vector: | <u>pCMV6-XL5</u> |
| E. coli Selection: | Ampicillin (100 ug/mL) |



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Fully Sequenced ORF: >NCBI ORF sequence for NM_001171083, the custom clone sequence may differ by one or more nucleotides

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ATGACGACTTTCGGCGCCGTGGCGGAATGGCGGCTTCCATCTCTGAGGCGAGCGACGCTA
TGGATCCCACAGTGGTTTGCTAAGAAGGCCATTTCAACTCTCCACTGGAGGCTGCTATG
GCGTTCCTCACCTGCAGCAGCCAGCTTCTACTGGCTAGCCTGAAAGCTGACTCTATA
AATAAGCCCTTTCACAGCAGTGCCAAGACTTGGTTAAAGTCATTGAGGACTTTCAGCA
AAGGGTCTGTGAAGGCGTCCATCCAGGAGTGCATCCTCCCTGACAGTCCCTGTACCAC
AACAAAGTCCAGTTCACCCCTACTGGGGCCTTGGTCTGAACTTGGCCCTGAATCCGTTT
GAGTATTACATATTCTTCTTTCGCTTGAGCCTCATCACTCAGAAGCCACTTCTGTGTCC
CTCCACGTCCGTACTTCAGACTGTGCCTATTTTCATCCTGGTGGACAGGTACCTGTCATGG
TTCCTGCCACCGAAGGCAGTGTGCCCCACCCTCTCCTCCAGCCAGGGGGGACCAGC
CCCTACCACCTCCAGGACACCAGCCATACCCTTTGCTTCTATGGCCTCCACCACACT
AGCCTCTAAAGCGACACATCTCTCATCAGACGTCTGTGAATGCAGACCCCGCTCCAC
GAGATCTGGAGGTCAGAACTCTGCTCCAGTTTTTTGTTGAAATGTGGCTTCATCACTAT
TCCTTGGAGATGTATCAAAAATGCAGTCCCCTCATGCCAAGGAGTCGTTACGCCTACT
GAGGAGCATGTGTGGTGGTGCCTGCTGCTGAAGCACCTGCACGCCTTGGCAACAGC
CTGAAGCCAGAGCAGGCCTCACCCCTCCGCCACTCCCACGCCACCAGCCCTGGAGGAG
TTCAAACGGGCTGCTGTCCCAGGTTTCGTCCAGCAGAACTCTACCTCTTCTTGCAGCAT
TGCTTTGGCCACTGGCCCTGGACGCATCGTTCAGAGCTGTCTGGAGATGTGGCTGAGC
TACCTGCAGCCGTGGCGGTACGCGCCTGACAAGCAGGCTCCGGGCAGGACTCCCAGCCC
CGGTGTGTGTCGAGAAATGGGCACCCTTTGTCCAGGAGAACCTGCTGATGTACACCAAG
TTGTTTGGGCTTTCTGAACCGCGCGCTCCGCACAGACCTGGTCCAGCCCAAGCAGCGG
CTCATGGTGTTCGAGTGGCCAAAGTCTTTGCCAGCCCAACCTGGCTGAGATGATTCAG
AAAGGTGAGCAGCTATTCTGGAGCCAGAGCTGGTTCATCCCCACCGCCAGCACCAGCTC
TTCACGGCCCCACATCACTGGGAGCTTCTGTACCCTGGCCACCAGCGGTCACTGAT
GCCTCCTTCAAGGTGAAGAGCCACGTCTACAGCCTGGAGGGCCAGGACTGCAAGTACACC
CCGATGTTTGGGCCGAGGCCCGCACCCCTGGTCTGCGCCTCGCTCAGCTCATCACACAG
GCCAAACACACAGCCAAGTCCATCTCCGACCAGTGTGCGGAGAGCCCGGCTGGCCACTCC
TTCCTCATGGCTGGGCTTTAGCTCCATGGACACCAATGGCTCCTACACAGCCAACGAC
CTGGACGAGATGGGGCAAGACAGTGTCCGGAAGACAGATGAATACCTGGAGAAGGCCCTG
GAGTACCTGCGCCAGATATTCGGCTCAGCGAAGCGCAGCTCAGGCAGTTCACACTCGCC
TTGGGCACACCCAGGATGAGAATGGAAAAAGCAACTCCCCGACTGCATCGTGGGTGAG
GACGGACTCATCCTTACGCCCTGGGGCGGTACCAGATCATCAATGGGCTGCGAAGGTTT
GAAATTGAGTACCAGGGGGACCCGGAGCTGCAGCCATCCGGAGCTATGAGATCGCCAGC
TTGGTCCGCACACTCTTTAGGCTGTCGTCTGCCATCAACCACAGATTTGCAGGACAGATG
GCGGCTCTGTGTTCCCGGATGACTTCTCGGCAGCTTCTGTCTGCTACCACCTCACAGAA
CCTGGGCTGGCCAGCAGGACCTGCTGAGCCCTGTGGGGCGGAGGAGGTGGCCGGCCAC
ACCCGCGGCCCCAGGCTCAGCCTGCGCTTCTGGGCAGTTACCGGACGCTGGTCTCGCTG
CTGCTGGCCTTCTCGTGGCCTCTCTGTTCTGCGTCGGGCCCTCCCATGCACGCTGCTG
CTACCCCTGGGCTATGTCTCTACGCCTCTGCCATGACACTGCTGACCGAGCGGGGAAG
CTGCACCAGCCCTGA

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Restriction Sites: Please inquire

ACCN: NM_001171083

Insert Size: 3614 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).

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| 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: | <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_001171083.1</u> , <u>NP_001164554.1</u> |
| RefSeq Size: | 3614 bp |
| RefSeq ORF: | 2295 bp |
| Locus ID: | 55627 |
| UniProt ID: | <u>Q9NXE4</u> |
| Cytogenetics: | 2q21.1 |
| Protein Families: | Transmembrane |
| Protein Pathways: | Metabolic pathways, Sphingolipid metabolism |
| Gene Summary: | <p>The protein encoded by this gene is a sphingomyelinase that catalyzes the hydrolysis of membrane sphingomyelin to form phosphorylcholine and ceramide. This gene is activated by DNA damage, cellular stress, and tumor necrosis factor, but it is downregulated by wild-type p53. The encoded protein localizes to the endoplasmic reticulum and Golgi network. [provided by RefSeq, Mar 2017]</p> <p>Transcript Variant: This variant (3) lacks two alternate exons resulting in the loss of an in-frame segment in the 5' coding region, and it also lacks an alternate in-frame exon in the central coding region, compared to variant 2. The resulting isoform (3) is shorter than isoform 2.</p> |