

Product datasheet for **SC316030**

Munc 13 4 (UNC13D) (NM_199242) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Munc 13 4 (UNC13D) (NM_199242) Human Untagged Clone
Tag:	Tag Free
Symbol:	Munc 13 4
Synonyms:	FHL3; HLH3; HPLH3; Munc13-4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_199242, the custom clone sequence may differ by one or more nucleotides

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ATGGCGACTCCTCTCCATCCGAGCAGCGCCCTCCCTTCTTGCGCCAGGCCATCAAG
ATAAGGCGCCGAGAGTCAGAGATCTACAGGATCCCCCGCCCAATGGCCCCGAGATC
CAGCCTCCATCCCACCACTTCTCCCCGAGCAGCGGGCCCTGCTCTACGAGGACGCACTC
TACACTGTCTTGACCGCCTGGGTATCCTGAGCCCAACCATGTGACGGAGGCCTCTGAG
CTGCTGCGATACCTGCAGGAGGCCTTCCACGTGGAGCCCGAGGAGCACCAGCAGACTG
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AAGGGCATTCTGGGCAAAGATGTCAGTGGGTTCCAGCGACCCCTACTGCCTGCTGGGCATT
GAGCAGGGGTAGGTGTGCCAGGGGCGAGCCCGGGTCCCGGCATCGGCAGAAGGCTGTG
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CATCTGGACATGTGGGACCTGGACTGTGGAGTCTGTCCGACAGAAGCTTGGGGAGCTC
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GACTTTCTGGGAACGTGGTTCTGAGGCTGCAGGACCTGCGCTGCCGAGAGGACCAAGTGG
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CAACTCATCCATAAGCGGAGAGCCACTTCGGCCAGCCGCTCGCAGCCGAGCTACACCGTG
CACCTCCACCTCCTGCAGCAGCTTGTGTCCACGAGGTCACCCAGCAGGCGGGGAAGC
ACCTCCTGGGACGGGTCGCTGAGTCCCCAGGCTGCCACCGTCTCTTTCTGCACGCCACA
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CAGTGGATCCAGGGTCGGCTCAAGGCAGAACAGCAGGAGGAGCTGGCCGCTCATTACAGC
TCCCTGTGACCTACGGCCTCTCCCTCATCCGGAGGTTCCGCTCTGTCTTCCCCCTCTCT
GTCTCGGACTCCCAGCCGGCTGCAGTCTTTCTCAGGGTCTGGTACAGATGTGCAAG
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GCCCTGCAGACTGGCACCCTGAATGGTTCCACCTGAAGCAGCAGCACCATCAACCCATG
GTGCAGGGCATCCCGGAGGCAAGGCCTTGTGGGCTGGTACAGGATGTCATTGGC

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GACCTGCACCAGTGCCAGCGCACATGGGACAAGATCTTCCACAATACCCTCAAGATCCAC
 CTCTTCTCCATGGCTTTCCGGGAGCTGCAGTGGCTGGTGGCCAAGCGGTGCAGGACCAC
 ACGACGGTTGTGGGTGATGTAGTGTCCCCAGAGATGGGCGAGAGTCTGTTCCAGCTCTAC
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 TACAACGAGGCCCTGGCGGGTGCAGCGCGTGTGCAGATGGATGAGCTGGTGGCCCTG
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 CGCGCTCTGAGCAGAAGCTGCGTGTGGAGTGTGACAGCTCCAGCCTGCTGCCCTG
 GACTCCAATGGCTCCAGCGACCCCTTTGTCCAGCTGACCTGGAGCCCAGGCATGAGTTC
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 GAGACCTTTGAATTCTGGTGCCTGCTGAGCCGTGCCGCAAGGCTGGGGCATGCCTCCTG
 CTCACCGTGTGGACTACGACACGCTGGGGCCGACGACCTGGAAGGCGAGGCCTTCTG
 CCGCTGCGTGAGGTGCCCGGCTGAGTGGCTCTGAGGAGCCTGGTGGAGTGCCTCAGACC
 CGCCTGCCCTCACGTACCCCGCACCAACGGGGACCAATCCTGCAGCTGCTGGAGGGC
 CGGAAGGGTGACCGAGAAGCCAGGTCTTTGTGAGGCTGCGGCGGACCCGGGCCAAGCAG
 GCCTCCAGCATGCCTTGCAGCCGACCG

Restriction Sites:

Please inquire

ACCN:

NM_199242

OTI Disclaimer:

Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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 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_199242.2, NP_954712.1</u>
RefSeq Size:	4406 bp
RefSeq ORF:	3273 bp
Locus ID:	201294
UniProt ID:	<u>Q70J99</u>
Cytogenetics:	17q25.1
Gene Summary:	This gene encodes a protein that is a member of the UNC13 family, containing similar domain structure as other family members but lacking an N-terminal phorbol ester-binding C1 domain present in other Munc13 proteins. The protein appears to play a role in vesicle maturation during exocytosis and is involved in regulation of cytolytic granules secretion. Mutations in this gene are associated with familial hemophagocytic lymphohistiocytosis type 3, a genetically heterogeneous, rare autosomal recessive disorder. [provided by RefSeq, Jul 2008]