

Product datasheet for **SC320889**

HEXA (NM_000520) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	HEXA (NM_000520) Human Untagged Clone
Tag:	Tag Free
Symbol:	HEXA
Synonyms:	TSD
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene sequence for NM_000520.3
 ACCAGCGGGCCATGACAAGTTCCAGGCTTTGGTTTTCGCTGCTGCTGGCGGCAGCGTTCCG
 CAGGACGGGGCAGCGGCCCTCTGGCCCTGGCCTCAGAACTTCCAAACCTCCGACCAGCGCT
 ACGTCCTTTACCCGAACAACCTTTCAATTCAGTACGATGTCAGCTCGGCCGCGCAGCCCG
 GCTGCTCAGTCCGACGAGGCCCTCCAGCGCTATCGTACCTGCTTTTCGGTCCGGGT
 CTTGGCCCGTCTTACCTCACAGGAAACGGCATACTGGAGAAGAATGTGTTGGTTG
 TCTCTGTAGTCACACCTGGATGTAACCAGCTTCCACTTTGGAGTCAGTGGAGAATTATA
 CCTGACCATAAATGATGACCAGTGTTTACTCCTCTGAGACTGTCTGGGGAGCTCTCC
 GAGGTCTGGAGACTTTTTAGCCAGCTTGTGGAAATCTGCTGAGGGCACATTCTTTATCA
 ACAAGACTGAGATTGAGGACTTTCCCGCTTTCCTCACCGGGGCTTGCTGTTGGATAACAT
 CTCGCCATTACCTGCCACTCTCTAGCATCCTGGACTCTGGATGTCATGGCGTACAATA
 AATTGAACGTGTTCCACTGGCATCTGGTAGATGATCCTTCCCTCCATATGAGAGCTTCA
 CTTTTCCAGAGCTCATGAGAAAGGGTCTACAACCTGTACCCACATCTACACAGCAC
 AGGATGTGAAGGAGGTCATTGAATACGCACGGCTCCGGGGTATCCGTGTGCTTGCAGAGT
 TTGACACTCCTGGCCACACTTTGCTCCTGGGGACCAGGTATCCCTGGATTACTGACTCCTT
 GCTACTCTGGGTCTGAGCCCTCTGGCACCTTTGGACCAGTGAATCCAGTCTCAATAATA
 CCTATGAGTTCATGAGCACATTCTTCTTAGAAGTCAGCTCTGTCTTCCCAGATTTTTATC
 TTCATCTTGAGGAGATGAGGTTGATTTACCTGCTGGAAGTCCAACCCAGAGATCCAGG
 ACTTTATGAGGAAGAAAGGCTTCGGTGAGGACTTCAAGCAGCTGGAGTCTTCTACATCC
 AGACGCTGCTGGACATCGTCTCTTATGGCAAGGGCTATGTGGTGTGGCAGGAGGTGT
 TTGATAATAAAGTAAAGATTAGCCAGACACAATCATAAGGTGTGGCAGAGGATATTC
 CAGTGAACATATGAAGGAGCTGGAACCTGGTACCAAGGCCGCTTCCGGGCCCTTCTCT
 CTGCCCCCTGGTACCTGAACCGTATATCCTATGGCCCTGACTGGAAGGATTTCTACGTAG
 TGGAAACCCTGGCATTGTAAGGTACCCCTGAGCAGAAGGCTCTGGTGATTGGTGGAGAGG
 CTGTATGTGGGAGAATATGTGGACAACAAACCTGGTCCCCAGGCTCTGGCCAGAG
 CAGGGGCTGTTGCCGAAAGGCTGTGGAGCAACAAGTTGACATCTGACCTGACATTTGCCCT
 ATGAACGTTTGTACACTTCCGCTGTGAGTTGCTGAGGCGAGGTGTCCAGGCCCAACCC
 TCAATGTAGGCTTCTGTGAGCAGGAGTTTGAACAGACCTGAGCCCCAGGCACCGAGGAGG
 GTGCTGGCTGTAGGTGAATGGTAGTGGAGCCAGGCTTCCACTGCATCCTGGCCAGGGGAC
 GGAGCCCCCTTGCCTTCGTGCCCTTGCCTGCGTGCCCTGTGCTTGGAGAGAAAGGGGCC
 GGTGCTGGCGCTCGCATTCAATAAAGAGTAATGTGGCATTCTTATAATAAAAAAAAAA
 AAAAAAA

Restriction Sites: Please inquire

ACCN: NM_000520

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:	<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_000520.3 , NP_000511.1
RefSeq Size:	2320 bp
RefSeq ORF:	1590 bp
Locus ID:	3073
UniProt ID:	P06865
Cytogenetics:	15q23
Domains:	Glyco_hydro_20
Protein Families:	Druggable Genome
Protein Pathways:	Amino sugar and nucleotide sugar metabolism, Glycosaminoglycan degradation, Glycosphingolipid biosynthesis - ganglio series, Glycosphingolipid biosynthesis - globo series, Lysosome, Metabolic pathways, Other glycan degradation
Gene Summary:	<p>This gene encodes a member of the glycosyl hydrolase 20 family of proteins. The encoded preproprotein is proteolytically processed to generate the alpha subunit of the lysosomal enzyme beta-hexosaminidase. This enzyme, together with the cofactor GM2 activator protein, catalyzes the degradation of the ganglioside GM2, and other molecules containing terminal N-acetyl hexosamines. Mutations in this gene lead to an accumulation of GM2 ganglioside in neurons, the underlying cause of neurodegenerative disorders termed the GM2 gangliosidoses, including Tay-Sachs disease (GM2-gangliosidosis type I). Alternative splicing results in multiple transcript variants, at least one of which encodes a preproprotein that is proteolytically processed. [provided by RefSeq, Jan 2016]</p> <p>Transcript Variant: This variant (2) uses an alternate in-frame splice site in the 5' coding region compared to variant 1. The encoded isoform (2) is shorter than isoform 1.</p>