

Product datasheet for **MR208464**

Hexa (NM_010421) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Hexa (NM_010421) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Hexa
Synonyms:	Hex-1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>MR208464 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCCGGCTGCAGGCTCTGGTTCGCTGCTGCTGGCGCGCGCTTGGCTTGCCTGGCCACGGCACTGT
 GGCCGTGGCCCCAGTACATCCAAACCTACCACCGCGCTACACCCTGTACCCCAACAACTCCAGTTCGG
 GTACCATGTCAGTTCGGCCGCGCAGGCGGGCTGCGTCGTCTCGACGAGGCCCTTCGACGCTACCGTAAC
 CTGCTCTTCGGTTCGGCTCTTGGCCCCAGCCAGCTTCTCAAATAAACAGCAAACGTTGGGAAGAACA
 TTCTGGTGGTCTCCGTCGTACAGCTGAATGTAATGAATTTCTAATTTGGAGTCGGTAGAAAAATTACAC
 CCTAACCATTAATGATGACCAGTGTACTCGCCTCTGAGACTGTCTGGGCGCTCTCCGAGGTCTGGAG
 ACTTTCAGTCAGCTTGTGGAAATCAGCTGAGGGCACGTTCTTATCAACAAGACAAAGATTAAGACT
 TTCTCGATTCCCTCACCAGGGCGTACTGCTGGATACATCTGCCATTACCTGCCATTGTCTAGCATCCT
 GGATACACTGGATGTCATGGCATACAATAAATCAACGTGTTCCACTGGCACTTGGTGGAGCACTTTCC
 TTCCCATATGAGAGCTTCACTTTCCAGAGCTCACCAGAAAGGGTCTTCAACCCTGCACTCACATCT
 ACACAGCACAGGATGTGAAGGAGGTCATTGAATACGCAAGGCTTCGGGGTATCCGTGTGCTGGCAGAATT
 TGACACTCCTGGCCACACTTTGTCCTGGGGGCCAGGTGCCCTGGGTTATTAACACCTTGCTACTCTGGG
 TCTCATCTCTCTGGCACATTTGGACCGGTGAACCCAGTCTCAACAGCACCTATGACTTCATGAGCACAC
 TCTTCTGGAGATCAGCTCAGCTTCCCGGACTTTTATCTCCACCTGGGAGGGATGAAGTCGACTTCAC
 CTGCTGGAAGTCAACCCCAACATCCAGGCTTCAAGAAAAGGGCTTACTGACTTCAAGCAGCTG
 GAGTCTTCTACATCCAGACGCTGCTGGACATCGTCTGATTATGACAAGGGCTATGTGGTGTGGCAGG
 AGGATTTGATAATAAAGTGAAGGTTCCGCCAGATACAATCATAACAGTGTGGCGGAAGAATGCCAGT
 AGAGTACATGTTGGAGATGCAAGATATCACCAGGGCTGGCTTCCGGGCCCTGCTGTCTGCTCCCTGGTAC
 CTGAACCGTGTAAAGTATGGCCCTGACTGGAAGGACATGTACAAAGTGGAGCCCTGGCGTTTCATGGTA
 CGCCTGAACAGAAGGCTCTGGTCAATGGAGGGGAGGCTGTATGTGGGAGAGTATGTGGACAGCACCAA
 CCTGGTCCCAGACTCTGGCCAGAGCGGGTCCCGTCGCTGAGAGACTGTGGAGCAGTAACCTGACAAC
 AATATAGACTTTGCCTTTAAACGTTTGTGCGATTTCCGTTGTGAGCTGGTGGAGAGGAATCCAGGCC
 AGCCCATCAGTGTAGGCTACTGTGAGCAGGAGTTTGGAGCACT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR208464 protein sequence
 Red=Cloning site Green=Tags(s)

MAGCRLWVSLLLAAALACLATALWPWPQYIQTYHRRYTLYPNNFQFRYHVSSAAQAGCVLDEAFRRYRN
 LLFGSGSWPRPSFSNKQQLGKNILVSVVTAECNEFPNLESVENYTLTINDDQCLLASETVWALRGLE
 TFSQLVWKSAGETFFINKTKIKDFRPFHRGVLLDTSRHYLPLSSILDTLDMAYNKFVFWHLVDDSS
 FPYESFTFPELTRKGSFNPVTHIYTAQDVKEVIEYARLRGIRVLAEFDTPGHTLSWGPAGPLLTPCYSG
 SHLSGTFGPVNPVSLNSTYDFMSTLFLFISSVFPDFYHLHGGDEVDFTCWKSNPNIQAFMKKKGFTDFKQL
 ESFYIQTLLDIVSDYDKGYVWQEVFDNKVVRPDTIIQVWREEMPVEYMLEMQDITRAGFRALLSAPWY
 LNRVKYGPDWKMYKVEPLAFHGTPEQKALVIGGEACMWGEYVDSTNLVPRLWPRAGAVAERLWSSNLTT
 NIDFAFKRLSHFRCELVRRGIQAQPIISVGYCEQEFEQT

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



ACCN: NM_010421

ORF Size: 1587 bp

OTI Disclaimer: 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 clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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_010421.5](#)

RefSeq Size: 1865 bp

RefSeq ORF: 1587 bp

Locus ID: 15211

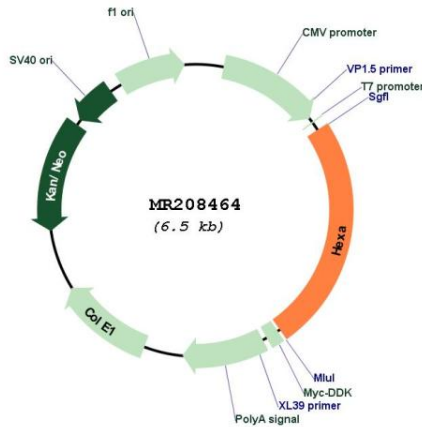
UniProt ID: [P29416](#)

Cytogenetics: 9 32.02 cM

MW: 60.6 kDa

Gene Summary: 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. Mice lacking the encoded protein exhibit accumulation of gangliosides in the brain and membranous cytoplasmic bodies in neurons. Certain mutations in the human ortholog of this gene cause Tay-Sachs disease. [provided by RefSeq, Aug 2016]

Product images:



Circular map for MR208464