

Product datasheet for **RR213556**

Hexb (NM_001011946) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Hexb (NM_001011946) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Hexb
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide Sequence:

>RR213556 representing NM_001011946
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGCCGGGGTCCCCGCGTCGCGCCCCGGGGCTGCTGCTGCAGGCGCTGGTGGCGATGGTGTGCTGGCCCC
 TGGTGGCCCCCTTCGGGCTGCAACCCGCGCTGTGGCCCATGCCGCGCTCGGTGCAGGTGTTCCCGCGGCT
 GCTGTACATCTCCCCGGAGAACTTCCAGATCGACAACAGCCCCAATTCCACCGCGGGCCCCCTCTGCTCG
 CTGCTGCTGGAGGCGTTTCGGCGATATTACAACATATTTTTGGTTTCTACAAGAGACATCATGGCCCTG
 CTAATTTCAAGATAAACACAGTTAGAGAAGCTTCTGGTCTTCATTAACCTCGAACCGCAGTGTGATGC
 CTTCCCTAGTATGTCATCAGATGAGTCTATTCTCTACTTGTACAAGAACCAGTAGCTCTCCTCAAGGCC
 AACGAAGTTGGGAGCACTAAGAGGTTGGAGACCTTTAGCCAGTTGGTTTACCAGGACGCTTATGGGA
 CTTTTACCATCAATGAATCCACTATTGCTGATTCTCAAGATCCCTCATAGAGGAATCTAATTGATAC
 ATCCAGACACTACCTGCCTGTGAAGACAATTTTTAAAACCTCTGGATGCCATGGCTTTTAATAAGTTAAC
 GTCCTTCACTGGCACATAGTGGACGACCACTTTCCCTTATCAGAGTATCACTTTTCTGAGCTAAGCA
 ACAAGGGAAGCTATTCTTTGCTCATGTCTATACACCAAACGACATCCATATGGTACTTGAATATGCCCC
 GCTCCGAGGGATTGAGTCATACCAGAATTCGATAGCCCCGGCCATACACAGTCTTGGGGAAAAGGTGAG
 AAAACCTTCAACTCCATGTTTCATTCAAAAAATTAGAACTCAAAGGTTGGACCTGTAGACCCAAAGTC
 TAAATACAACATACGTATTCTTTGACACATTCTCAAAGAAATCAGCAGGGTGTTCAGACCCAGTTTAT
 CCCTTGGGAGGAGATGAAGTGAATTTGAATGTTGGGCATCAAACCCAAACATCCAAAATTTTATGAAG
 AAAAAGGGCTTTGGCAACAATTTTAGAAGACTAGAATCCTTTTATATCAAAAAGATTTTGGATATTATCA
 CATCCTTAAAGAAGAGCTCCATTGTTTGGCAAGACGTTTTTGTGATCAAGTGGAGCTTCAGCCGGGAC
 GGTAGTTGAAGTGTGAAAAGTGAATACTTAATGAATTAGCACAAAGTCACAGCATCCGGCTTCCCT
 GCCATCCTTTCTGCTCCTTGGTACTTAGACCTGATCAGCTACGGGCAAGACTGGAGAAACTACTATAAAG
 CGGAGCCCTTAACTTTGAAGGTTGCGAGAAGCAGAAACAACCTGTTATTGGTGGAGAGGCTTGCCTATG
 GGGAGAATATGTGGATGCAACTAACCTTATTCCAAGACTATGGCCTCGGGCAAGCGCTGTTGGTGAAGG
 CTCTGGAGCCCTAGAATTATACCAACCTGAAAACGCCCTACAGACGACTGGCAGTGCACCCTGTAGAA
 TGGTCAGCCGGGAATAGCTGCACAACCTCTTTACTGGATATTGTAACACGAGAATAAAATGGAAAA
 G

ACGCGTACGCGGCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR213556 representing NM_001011946
 Red=Cloning site Green=Tags(s)

MPGSPRRAPGLLLQALVAMVSLALVAPFGLQPALWPMRVSQVFPRLLYISPENFQIDNSPNSTAGPSCS
 LLLLEAFRRYYNYIFGFYKRHHGPAKFQDKPQLEKLLVFINLEPQCDAFPMSSDESYSLLVQEPVALLKA
 NEVWALRGLTFSQLVYQDAYGTFTINESTIADSPRFPHRGILIDTSRHYLPVKTIKTLDAMAFNKFN
 VLHWHIIDDQSFYQSIITPELSNKGYSLSHVYTPNDIHMVLEYARLRGIRVIPEFDSPGHTQSWGKGQ
 KNLLTPCFIQKIRTQKVGVPVPSLNTTYVFFDTFFKEISRVPDQFIHLGGDEVEFECWASNPNIQNFMK
 KKGFGNNFRRLSFYIKKILDIIITSLKSSIVWQDVFDQVELQPGTVVEVWVWSENLYNELAQVTASGFP
 AILSAPWYLDLISYGQDWRNYKAEPLNFEGSEKQQLVIGGEACLWGEYVDATNLIPLWPRASAVGER
 LWSPRIITNLENAYRRLAVHRCRMVSRGIAAQPLFTGYCNYENKMEK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

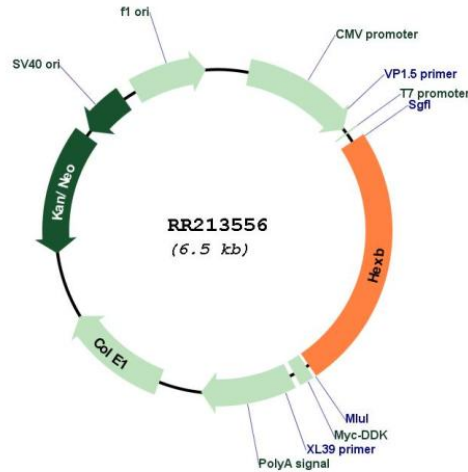
Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

Plasmid Map:



ACCN: NM_001011946

ORF Size: 1611 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_001011946.1](#), [NP_001011946.1](#)

RefSeq Size: 1907 bp

RefSeq ORF: 1614 bp

Locus ID: 294673

UniProt ID: [Q6AXR4](#)

Cytogenetics: 2q12

MW: 61.5 kDa

Gene Summary: Responsible for the degradation of GM2 gangliosides, and a variety of other molecules containing terminal N-acetyl hexosamines, in the brain and other tissues.[UniProtKB/Swiss-Prot Function]