

Product datasheet for **RG207159**

HEXD (NM_173620) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	HEXD (NM_173620) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	HEXD
Synonyms:	HEXDC
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG207159 representing NM_173620
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGAGTTTGTGCTGAAGCACACGGCCTTCGCCACCTGCGGGAGGTGGGCTCCTCCCTGCACCCTGA
 ACCCCACGAGGCAGAGTCCCTGGCGCTGGTGGCGCCATGATTGACCAGGTCTGGAGCTACACCCAGG
 CGCCACGCGGCTGCACATCGGGTGTGATGAGGTCTATTACCTCGAGAGGGGGAGGCCTCGCGCCGGTGG
 CTACAGCAAGAGCAGAACAGCACGGGAAGTTGTGCCTGTACACATGCGGGCGGTGGCCAGCGCGTGA
 AGGCCCGCGCCCGAGCGTGACACCCCTGGTGTGGGACGACATGCTCCGAGACCTGCCTGAGGACCAGCT
 CGCAGCGTCCGGGTGCCGAGCTGGTGGAGCCGGTCTCTGGGACTACACGGCCGACCTGGATGTGTAC
 GGCAAGTCTCCTCATGCAGAAGTACCGCGGTGCGGCTTCCGAGCTGTGGGAGCCAGTGCCTTCA
 AGGGTCCACGGGGCCAGCCAGGCCGTGCCCTGTTGAGCACCTCAGGAACCACGTGCAGTGGCT
 GCAGGTGGCGGGCAGCGGCCACGGACTACTGCAGGGCATCATCTGACCGGCTGGCAGAGGTACGAC
 CACTACTCTGTGCTGTGCGAGCTGTGCCCGCAGGAGTCCCGTCCCTGGCCGCTGCCTGCAGTTGCTTC
 TACGCGGAGGATTTGATGAAGATGTTAAAGCGAAAGTGGAGAACCTTCTCGGGATTTCCAGCCTGAAAA
 AACGGACCCTGTTAGGCAAGCACCTGCAGCCCTCCCTGTCCCCTTCTCCCTCCCTCCCGCCCG
 TGGAGACAGCTGTTCTCAGCAGGGCTCTCCGAGGGAGGGGGCCGGCTCCTTCCCTGGCAGCAACATCCT
 TGCCCTTGTACACAAGTCAAGCTCCATCTGCGCAGCTCTGTGGATGCGCTGTGGAGGGCAACAGGTAT
 GTCAGTGGCTGGTTCAGCCCTACCACCGCCAGCGGAAGCTCATCCACCCGGTATGGTTCAGCACATCC
 AGCCCGCAGCGCTCAGCCTCTGGCACAGTGGAGCACCTCGTGCAGGAGCTGGAGGCTGCCCTGCAGT
 GGCTTTCTACCCGGATGCCGTGGAGGAGTGGCTGGAGGAAAACGTGACCCCGCAGCTGCAGCGGTCGAA
 GCTCTGCTGCAGGACCTCAGCGAGGTGTCTGCCCGCCGCTGCCACCCAGCCCTGGCAGGGAGGTTG
 CTAGGACCCCTGAGGGAGAGCTCATGCCAGGGGCTCCTGCTGGAGGCTGGGGGGCTCTGCACTGCC
 AAATGGCTGGGCAATACGGGCCACGTGGGCGTCTGTCCTCTGGCCAGCAGTGTCTTGCCCACACTC
 AGTTCTGAGGGCCCTGGCAGCCCTGGGGAGAGACTAGAAAACACAGAAGGAAGCAGCACAGGGAGA
 CCCGCTTTG

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG207159 representing NM_173620
 Red=Cloning site Green=Tags(s)

MEFVLKHTAFAHLREVGSPFCTLNPHAEESLALVGAMIDQVLELHPGAQRLHIGCDEVYYLGEGEASRRW
 LQQEQNSTGKLCCLSHMRAVASGVKARRPSVTPLVWDDMLRDLPEDQLAASGVLPQLEPVLWDYADLDVY
 GKVLLMQKYRRCGFPQLWAASAFKGGATGPSQAVPPVEHHLRNHVQWLQVAGSGPTDSLQGIILTWGQRYD
 HYSVLCCELLPAGVPSLAACLQLLLRGGFDEDVKAKVENLLGSSLEKTDVPRQAPCSPPCLLPLPFRP
 WRQLFSAGLSAGRGPAPSLAATSLPLSHKSASICAALWMRCWRATGMSLAGSAPTTASGSSSTRSFWSTS
 SPQRSASWHSGAPSCRSWRLPCSWLSTRMPWRSRWKCTPACSGCKLCCRTSARCLPPRCHPPALAGTL
 LRTPEGRAHARGLLLEAGGALHCQMAWAIRAHVGVVPSGPAVSCPHSVPEGPQPLGERLENTEGSSSTGR
 PAL

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_173620

ORF Size: 1479 bp

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 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).

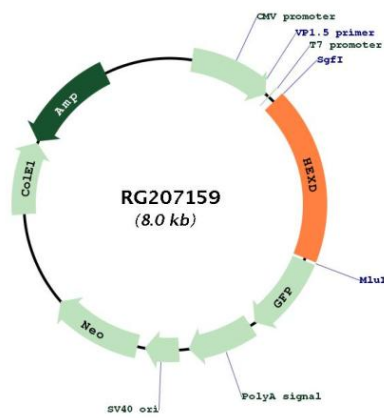
- Reconstitution Method:**
1. Centrifuge at 5,000xg for 5min.
 2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
 3. Close the tube and incubate for 10 minutes at room temperature.
 4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the 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_173620.1](#), [NP_775891.1](#)

RefSeq Size: 2272 bp
 RefSeq ORF: 1758 bp
 Locus ID: 284004
 UniProt ID: [Q8WVB3](#)
 Cytogenetics: 17q25.3

Gene Summary: Has hexosaminidase activity. Responsible for the cleavage of the monosaccharides N-acetylglucosamine (GlcNAc) and N-acetylgalactosamine (GalNAc) from cellular substrates. Has a preference for galactosaminide over glucosaminide substrates (PubMed:27149221). [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RG207159