

Product datasheet for **MG217455**

Has3 (NM_008217) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Has3 (NM_008217) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Has3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG217455 representing NM_008217
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGCCGGTGCAGCTGACTACAGCCCTGCGTGTGGTGGCACCAGTCTGTTTGCCTGGTAGTGCTGGGAG
 GCATCCTGGCGGCTATGTGACAGGCTACCAGTTTATCCACACAGAAAAGCACTACCTGTCTTTGGCCT
 CTACGGTGCCATCCTGGGTCTACATCTGCTCATCCAGAGCCTGTTTGCCTTCTGGAGCACCGTCAATG
 CGCAGGGCAGGGCGCCCCCTCAAGCTGCACTGCTCCAGAGGCGCGTTCAGTGGCACTCTGCATTGCTG
 CCTACCAAGAGGACCCGAATACCTGCGCAAGTGCCTTCGCTCAGCTCAGCGCATTGCCTTTCAAACCT
 CAAGGTGGTCATGGTAGTGGATGGCAATCGCCAGGAAGATACCTACATGTTGGACATCTCCATGAGGTG
 CTGGGTGGCACTGAGCAAGCTGGCTTTTGTGTGGCGTAGCAATTTCCATGAGGCGGGTGAAGGAGAGA
 CAGAGGCCAGCCTGCAGGAAGGCATGGAGCGTGTGCGAGCTGTGGTGTGGCCAGCACCTTCTCATGCAT
 CATGCAGAAGTGGGGGGCAAGCGTGAAGTGTACACTGCCTTCAAGGCCCTTGGCAACTCAGTGGAC
 TACATCCAGGTGTGTGACTCTGACACTGTGCTGGACCCAGCCTGCACCATTGAGATGCTTCGAGTCTTGG
 AAGAAGATCCCAAGTAGGAGGTGTTGGAGGAGATGTCCAAATCCTCAACAAGTATGATTATGATGCTC
 CTTCTGAGCAGTGTGAGGTACTGGATGGCTTTCAACGTGGAGCGGGCCTGCCAGTCTACTTTGGCTGT
 GTGCAATGATTAGTGGGCTTTGGGCATGTACCGCAACAGCCTCCTTCAGCAGTTCTGGAGGATTGGT
 ACCATCAGAAGTCTTAGGCAGCAAGTGCAGCTTTGGGGATGATCGGCACCTTACCAACCGAGTCTGAG
 TCTTGGCTACCGACTAAGTATACAGCACGCTCTAAGTGCCTCACAGAGACCCCACTAGGTACCTTCGA
 TGGCTCAATCAGCAAACCCGCTGGAGCAAGTCTTACTTTTCGGGAATGGCTCTACAATTCTCTGTGGTTCC
 ATAGCACCACTCTGGATGACCTATGAATCAGTGGTCAAGTTCCTTCCATTCTTCCATTGCTATGCTAC
 AGTCATACAACCTTTTCTACCGTGGCCGCATCTGGAACATTCTCCTCTTCTGCTAACAGTGCAGCTGGTG
 GGCATTATCAAGGCTACCTATGCCTGCTTCTTCGAGGCAATGCAGAGATGATCTTCATGCTCCCTACT
 CCCTTCTCTATATGTCCAGCCTCTTCCAGCCAAGATCTTTGCTATTGCTACCATCAACAAGTCTGGCTG
 GGGCACTTCTGGCAGGAAAACCTTGTGCTGAACCTTATTGGCCTAATCCCCGTGTCCATCTGGGTGGCA
 GTTCTTCTAGGGGGTTAGCCTACACAGCTTATTGCCAGGACCTGTTCAAGTGCAGTGCAGTGCAGTGC
 TAGTCTCTGGGGCCATCTGTATGGCTGCTACTGGGTGGCCCTCCTCATGCTGTATCTGGCCATTATTGC
 CCGGAGGTGTGGGAAGAAGCCAGAACAGTATAGCCTGGCTTTTGGGAGGTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG217455 representing NM_008217
 Red=Cloning site Green=Tags(s)

MPVQLTTALRVVGTSLFALVVLGGILAAVVTGYQFIHTEKHYSFGLYGAILGLHLLIQSLFAFLEHRRM
 RRAGRPLKLHCSQRPRSVLCAIAYQEDPEYLRKCLRSAQRIAFPNLKVVMVVDGNRQEDTYMLDIFHEV
 LGGTEQAGFFVWRSNFHEAGEGETEASLQEGMERVRAVWASTFSCIMQKWGGKREVMYAFKALGNSVD
 YIQVCDSDTVLDPACTIEMLRVLEEDPQVGGVGGDVQILNKYDSWISFLSSVRYWMAFNVERACQSYFGC
 VQICISGPLGMYRNSLLQQFLEDWYHQKFLGSKCSFGDDRHLTNRVLSLGYRKYTARSKCLTETPTRYLR
 WLNQQTRWSKSYFREWLYNLWFHKKHLLWMTYESVVTGFFPFLIATVIQLFYRGRINWILLFLLTVQLV
 GIKATYACFLRGNAEMIFMSLYSLLYMSSLLPAKIFAIAIATINKSGWGTSGRKTIVVNFIGLIPVSIWVA
 VLLGGLAYTAYCQDLFSETELAFVSGAILYGCYVWALLMLYLAIARRCGKKPEQYSLAFAEV

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_008217

ORF Size: 1662 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.

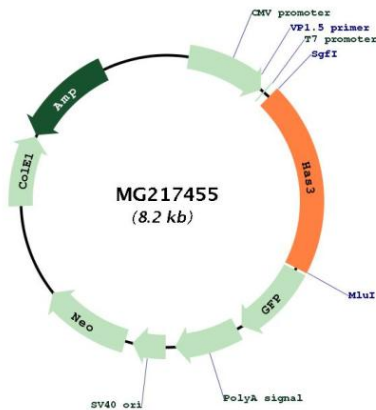
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

- 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_008217.4, NP_032243.2](#)
RefSeq Size: 5912 bp
RefSeq ORF: 1665 bp
Locus ID: 15118
UniProt ID: [O08650](#)
Cytogenetics: 8 53.28 cM

Gene Summary: Catalyzes the addition of GlcNAc or GlcUA monosaccharides to the nascent hyaluronan polymer. Therefore, it is essential to hyaluronan synthesis a major component of most extracellular matrices that has a structural role in tissues architectures and regulates cell adhesion, migration and differentiation. This is one of the isozymes catalyzing that reaction. [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG217455