

Product datasheet for **MG203607**

Hhex (NM_008245) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Hhex (NM_008245) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Hhex
Synonyms:	Hex; Hex1; Hhex-rs2; Prh; Prhx
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG203607 representing NM_008245 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCAGTTC**CCCGCACCCGGGCCCCGCGCTGCGCCCGCCGTGGGAGTCCCGCTGTATGCGCCACGCCGC**
TGCTGCAGCCCGCTCACCCGACGCCCTTACATCGACGACATCTGGGTCGCGGGCCCGCCGCCCCAC
GCCACTCCACGCTGCCGTCCCCAACTCCTCCTTACCAGCCTCGTGTCTCTACCGGACCCCGGTG
TACGAGCCACGCGGTCCACCCGCTTCTCGCACCACCCGGCCGCGCTGGCCGCCCTACGGCC
CCAGTGGCTTCGAGGCCCTCTGTACCGTTCCCGCGGACGGTGAACGACTACACGCACGCCCTACTCCG
CCACGACCCCTGGGCAAGCCCTTGCTCTGGAGCCCTTCTCCAGCGACCTCTGCACAAAAGGAAAGGC
GGTCAAGTGAGGTTCTCAACGACCAGACCGTCGAGCTGGAGAAGAAGTTCGAGACTCAGAAATACCTCT
CCCCACCCGAGAGAAAGCGTCTGGCCAAGATGTTGCAGCTCAGTGAGAGACAGGTCAAAACCTGGTTTCA
GAATCGCCGAGCTAAATGGAGAAGACTGAAACAGGAGAACTCTCAAAGCAACAAAAGGATGCGTTGGAC
AGTTTGGACACTTCTGTGAGCAGGTCAGACTTGCCAGTGAACAGAAATAAGGTGCCTTTGGATC
GTTGCGAGTGTCCACCTCCCAGCCTCTCAGGAAGACCCGACTCGGAGATCTCAGAGGATTCGGACCA
GGAGGTGGACATCGAGGGGGATAAAGGCTACTTTAATGCTGGA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG203607 representing NM_008245
 Red=Cloning site Green=Tags(s)

MQFPHPGPAAAPAVGVPLYAPTPLLQPAHPTPFYIDDILGRGPAAPTPTPTLSPNSSTSLVSSYRTPV
 YEPTPVHPAFSHHPAAALAAAYGPSFGGPLYFPFRTVNDYTHALLRHDPLGKPLLWSPFLQRPLHKKRG
 GQVRFSDNQTVLEKKFETQKYLSPPERKRLAKMLQLSERQVKTWFQNRRAKWRRLKQENPQSNKKDALD
 SLDTSCSEQDLPSEQNKGASLDRSQSPSPASQEDPDSEI SEDSDQEVDIEGDKGYFNAG

TRTRPLE - GFP Tag - V

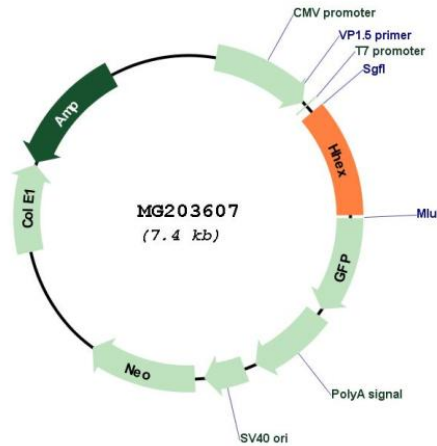
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



ACCN: NM_008245

ORF Size: 813 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:	<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_008245.2 , NP_032271.1
RefSeq Size:	1772 bp
RefSeq ORF:	816 bp
Locus ID:	15242
UniProt ID:	P43120
Cytogenetics:	19 32.28 cM
Gene Summary:	Recognizes the DNA sequence 5'-ATTAA-3' (By similarity). Transcriptional repressor. May play a role in hematopoietic differentiation. Establishes anterior identity at two levels; acts early to enhance canonical WNT-signaling by repressing expression of TLE4, and acts later to inhibit NODAL-signaling by directly targeting NODAL.[UniProtKB/Swiss-Prot Function]