

Product datasheet for **MG221111**

Hps5 (NM_001167864) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Hps5 (NM_001167864) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Hps5
Synonyms:	Al646796; AL022647; C85120; haze; hz; maroon; mr; ru-2; ru2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG221111 representing NM_001167864 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGACTTTTGTGCCAGTGATACCAGAAGCCTACAGCCATGTTCTTGCAGAGTTTGTGATCCTTGGATCCGT
TACTCACAGCCCTGAGGCTGGACTCCAGTCGTCTGAGGTGTACCAGCATAGCTGTGTCTCGGAAATGGTT
GGCGTTAGGCAGCACAGGAGGAGGACTCAATCTCATTAGAAAGATGGCTGGAAGCAAAGGCTGTTTCTC
TCTCACCGGGAAGGGCAATCTCTCAGATTGCCTGCTGCTCATGATGATGATTATGTTGCTGTAGCTA
CCAGTCAAGGTCTTGTAGTTGTTGGGAATTAATCAAGAGCGTCGTGGGAAGCCAGAACGAATTCATGT
GTCCTCAGAACACAAAGGCCGAAAAGTTACTGCCCTCTGTTGGGACACGGCTGTTCTGAGAGTCTTTGTC
GGTGACCATGTGGCAAAGTATCTGCCATCAAACACTTTGAAAACAAGCAAAGCAGCTGCTGCCCT
TTGTGATGTTTCTGTGCAGACAGTACTAACAGTGGACTCGTGTGTCTGTCAGTTGGATTACTTGGATGG
AAGATTACTTGTGCTTCACTGACTCGATCCTTCTTGTGTGACACCGAGAGGGAAAAGTTTTGGAAAATC
GGAAATAAGGAAAGACATGGAGAATATGGGGCTTGTTCCTCCCGGGCGGTGTGCTGGGGCCAGCAGC
CTGTGATCTACTGCGCCCGCCAGGCTCCCGGATGTGGGAAGTGAACCTTTCAGCGGGAAGTGCTCAGTAC
ACACCAGTTCAAGAAGCTCCTGTCAATGCCACCCTCCCTGTGATCACTGCAAGATCAGAGCCTCAGTAT
GATCACACAGTTGGATCCTCCAGTCTTTGGCATTCCCAAACCTTTGATCTTAGTGAACACTGTGTGC
TGACTTGGACAGAAAAGGGAATTTATATTTTCATTCTCAGAATGTTCAAGTTCTTCTTTGGAGTGAAGT
CAAGGAACGCCTGTTAAGGAGAGGCCTGTGGGACCTGGCTGCTCGCATGCTGTCTCTTCCAAAATTTCT
ATTATTACCAGCAGAGCAAGAAAAACATTGACTGCAGATAAGTTGGAGCATTTGAAGTCTCAGCTGGACC
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AAGATGAAAGGCTTAAAGAATTTGCCTCACACCAGGAAGAGGAGCAGCCAGAGCAGGGCTGTGGTCCAA
TAGGAATGAAGAGAGTGCTTCCACAGTCCAGTGTCTGAGGTAGATAAGAGTGAAGCTTTTCTGCC



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TTCAGCATTGCACTGCCATTTTCGTTCTCCATCTCCCCTCGTGTCTTTCAGGCTGTTAAAGACAGTGTTT
 CTAGCTTTGTGCGTAAAACACTACTGAGAAGATTGGCACCCCTTACGGAAGCCCCGAGCTGAAAAGAGCCTTT
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 TGCCACGGGGTTACAGTACTGGATGGCTTCGTCCTTCTGATAGTCCCTTGTGATTGCATTTGCCAC
 CCGGTTGTATGATAGATTTGGGAGTCAAGCCTTCGAGCTTGCATCAAGTTTTATCCGTCCATTTGCCC
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 CTGGCTCTTGTGATGTCAGAAAAGTTCACCAGAACCTGTGATATCCTGAGGATTGCTGAGAGAAGGCAGA
 GAGCGCTGATACAAGGCATGCTTGAAGAAGTGTACCGCTTCTCTGGTCGACGAGGCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG221111 representing NM_001167864

Red=Cloning site Green=Tags(s)

MTFVPIPEAYSHVLAEFESLDPLLALRLDSSRLRCTSIAVSRKWLALGSTGGGLNLIQKDGWKQRLFL
 SHREGAISQIACCSHDDDYVAVATSQLVWVWELNQERRGKPERIHVSSEHKGRKVTALCWDTAVLRVAV
 GDHVGVSAIKLNLKQAKAAAAFVMPVQTVLTVDSCVVQLDYLDGRLLVSSLTRSFCDTEREFWKI
 GNKERHGEYGACFFPGRGAGGQPVIIYCARPGSRMWEVNFDFGEVLSTHQFKLLSMPPLPVITARSEPQY
 DHTVGSQSLAFPKLLHLSEHCVLTWTEKGIYIFIPQNVQVLLWSEVKERLLRRGLWDLAARTCCCLFQNS
 IITSRARKTLTADKLEHLKSQLDLTACSELIQLDDLILRFEPLESACSSRRSSISSHESFSILDGSIYR
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 DLAELTTLCELVNLTSAVESVGGHVDRAQQLSPEILACRFLKKYFFLLDLKRAKESIKLTYDSPCVWD
 TFVEGLKEMARSNPAYTELEEGDLPTGLQLLDGFVPSDPLLI AFATRLYDRFGESALRACIKFYPSISP
 SDIAQLCRHHPAQFLAYLDSLKSRPEDQWPSFLEFLQPESLRLEWLLAVSHDAPPSTSTVDDEGHPR
 PHSHLLSWGYSQILLLL IKLPADFTTKEKMTDICRSYGFWPGYLTLCLELERRREAFTNIIVLNDISLME
 GDNGWIPETLEEWKLLLHLLQTKSTRPAPQESLNGSLSDGPAPINVENVALLLAKAMGPDRAWSLLEQECG
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TRTRPLE - GFP Tag - V

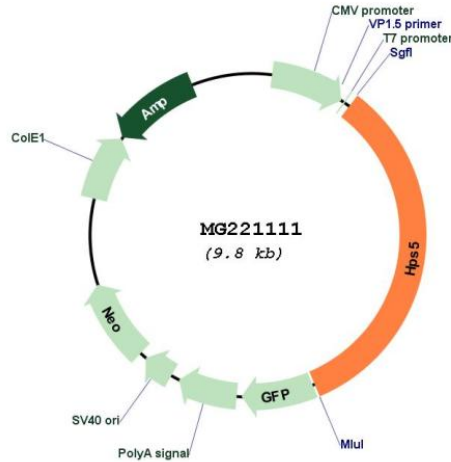
Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001167864

ORF Size: 3279 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:	<u>NM_001167864.1, NP_001161336.1</u>
RefSeq Size:	4729 bp
RefSeq ORF:	3282 bp
Locus ID:	246694
UniProt ID:	<u>P59438</u>
Cytogenetics:	7 30.56 cM
Gene Summary:	May regulate the synthesis and function of lysosomes and of highly specialized organelles, such as melanosomes and platelet dense granules. Regulates intracellular vesicular trafficking in fibroblasts. May be involved in the regulation of general functions of integrins. [UniProtKB/Swiss-Prot Function]