

Product datasheet for **MG225375**

Helt (NM_173789) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Helt (NM_173789) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Helt
Synonyms:	A830086M02; Hesl; Heslike; megane; Mgn
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG225375 representing NM_173789 Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTAAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGC**C

ATGTCTGACAGGCTCAAGGAACGCAAAAGAACCCGGTTTCTCATAAAGTGATAGAAAAGAGAAGGAGGG
 ACCGAATTAACCGCTGCTTGAACGAGCTGGCAAGACAGTCCCTATGGCCCTGGCGAAACAGAGTTCCGG
 GAAACTGGAGAAGGCGGAGATCCTGGAGATGACAGTGCAGTACCTCAGAGCTCTGCATTCCGCGGATTTT
 CCCCAGGGAAGGAAAAAGAGCTTTTAGCAGAATTTGCCAACTACTTCCACTACGGTTACCACGAGTGCA
 TGAAGAACCTGGTGCACCTACCTACCACCGTGGAGCGGATGGAGACCAAGACACCAAGTATGCGCGCAT
 CCTCGCCTTCTTGAATCCAAGGCCCGCTGGGCGCCGAGCCACCTTTCCGCGCTCTCGCTTCCGGAG
 CCAGATTTCTCCTATCAGCTGCATGCAGCAAGCCAGAGTTCCTGGGCCACAGCCAGGTGAAGCCACAA
 TGTTCCCGCAGGGGGCTACCCAGGGTCATTCCCATGGCTCCTGGAGCTGCCCGCAGCCAGCACTGCC
 TTAATTGTCCAGCGCGACGGTACCTCTCCCCAGCCGGCACAGCAGCACAGCCCTTCTTGGCTCCGATG
 CAGGGCTGGACCGGCATTATCTCAATCTGATCGGCCATGGCCACCCCAACGGCCTCAACCTGCACACGC
 CCCAGCACCTCCGGTGCTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA


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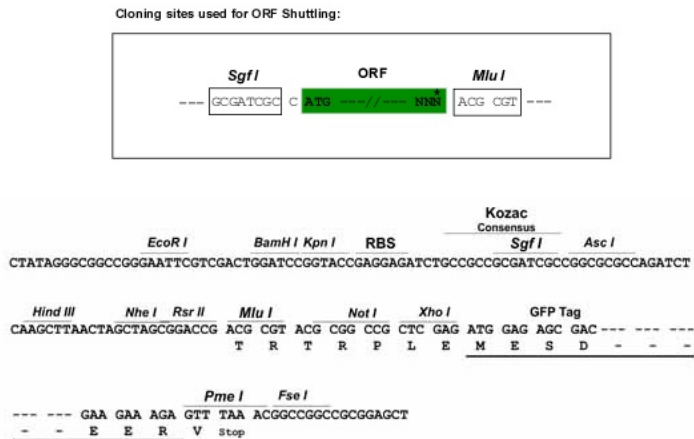
Protein Sequence: >MG225375 representing NM_173789
 Red=Cloning site Green=Tags(s)

MSDRLKERK RTPVSHK VIEKRRRDRINRCLNELGKTVPMALAKQSSGKLEKAEILEMTVQYL RALHSADF
 PRGREKELLA EFANYFHYGYHECMKNLVHYLTTVERMETKDTKYARILAF LQSKARLGA EPTFPPLSLPE
 PDFSYQLHAASPEFP GHSPGEATMF PQGATPGSFWP PGAARSPALPYLSSATVPLPSPAQQHSPFLAPM
 QGLDRHYLNLIGHGHPNGLNLHTPQHPPVL

TRTRPLE – GFP Tag – V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_173789

ORF Size: 720 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_173789.4](#), [NP_776150.2](#)

RefSeq Size: 1548 bp

RefSeq ORF: 723 bp

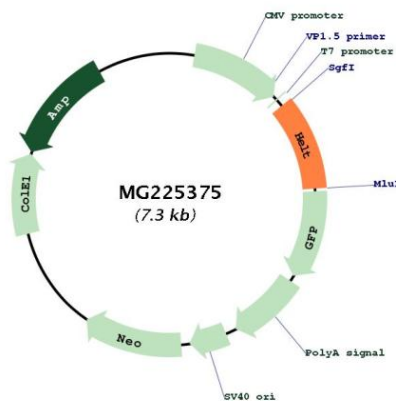
Locus ID: 234219

UniProt ID: [Q7TS99](#)

Cytogenetics: 8 26.32 cM

Gene Summary: Transcriptional repressor which binds preferentially to the canonical E box sequence 5'-CACGCG-3'. Required for the development of GABAergic neurons.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG225375