

Product datasheet for **MG221867**

Heyl (NM_013905) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Heyl (NM_013905) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Heyl
Synonyms: bHLHb33; hesr3; Hey3; Hrt3
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG221867 representing NM_013905
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGAAGCGGCCAGGGCGCCAGTGGCTCCGACGGCGAGTCTGATGGACCCATCGATGTGGGTCAAGAGA
 ACGATCTTAGCCAGATGGCCAGGCCGCTGACTACCCAGCCCTTCGAGATGCAAGCCCGAAGAAGCG
 CAGAGGGATCATAGAGAAACGGCGCAGAGACCGCATCAACAGTAGCCTTTCTGAATTGCGACGATTGGTC
 CCCACTGCCTTTGAGAAACAGGGCTCCTCAAGCTGGAGAAAGCTGAGGTCTTGCAGATGACCGTGGATC
 ACTTGAAGATGCTCCATGCCTCTGGTGGCACAGGGTTCTTTGATGCCCGAGCCCTGGCTGTTGACTCCG
 GAGTATTGGGTTTCGGAATGCCTCACTGAGGTACATAAGATACCTGGGGTCTTGAAGGACCCAGCAGC
 CATGCCGACCCTGTCCGATTCCCTCCTCCCACCTCAAGAGCTATGCAGCAGAGATGGAGCCCTCAC
 CCACGACCACAGTGCCTGGCCTTTCCCGTGTGGCCCTGGTCTTCTGCATAGCTGTCCAGGCTTGCC
 TTCCCTGAACAGTCAGCTCGCCATCCTGGGAAGAGTGCCCGGCCCTGTCTCCCCAGCATCTTTCTCCC
 CTTACCCTATCTCAGCCCTGAGGTCCGACACAGTGCACAGACCTGTGGTACCATCCCCCAACCCGGC
 GGAATTTGTTGCCAGCCGAGGGGTGACTTCCACCCAGAGAGCCCATCTTCTGAGAGGCCAGCTGCCCC
 TCCACCCACAGCCCTTGATGCCAGGGCTGCCAGGAGCATAGTCCCAATCCCACCATGTTCCCCACAACA
 GCCCTGGAGCTGGGAAATCTGATGACAATGTGTCTGGTTCTATCTCCAGTCCATGTCCTCAGGGCCAA
 CTGGGAGCCCTGCGGGAGCAGTGTCTACCACTCTGGGTCTCAGAAATCACTGAAATGGGGCTTTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG221867 representing NM_013905
 Red=Cloning site Green=Tags(s)

MKRPRAPSGSDGESDGPIDVGQENDLSQMARPLTTPSPSQMQRKRRGIEKRRRDRINSSLSELRLV
 PTAFEKQGSSKLEKAEVLQMTVDHLKMLHASGGTGFDFARALAVDFRSIGFRECLTEVIRYLVGLEGSS
 HADPVRIRLLSHLKSAAEMEPSPTTSSALAFPVWPWSFLHSCPGLPSLNSQLAILGRVPGVLPVLSISSP
 PYPISALRSAPVHRPAGTIPPTRRNLPSRGVTSTQRAHLPERPAAPPPTALDARAARSIVIPPCSPPT
 APGAGKSDDNVSGSISPCPSGPTGRPAGAVFYHSWVSEITEIGAF

TRTRPLE - GFP Tag - V

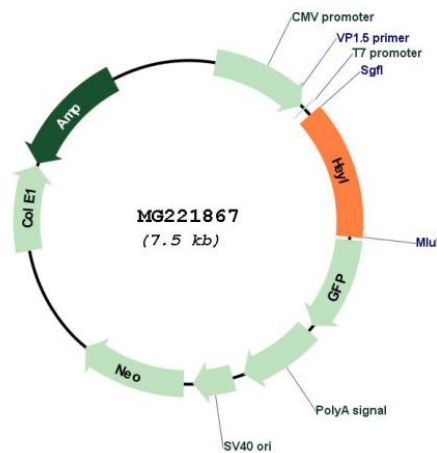
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:



ACCN: NM_013905

ORF Size: 978 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_013905.3 , NP_038933.2
RefSeq Size:	4532 bp
RefSeq ORF:	981 bp
Locus ID:	56198
UniProt ID:	Q9DBX7
Cytogenetics:	4 D2.2
Gene Summary:	Transcriptional repressor which binds preferentially to the canonical E box sequence 5'-CACGTG-3' (By similarity). Downstream effector of Notch signaling required for cardiovascular development. Specifically required for the Notch-induced endocardial epithelial to mesenchymal transition, which is itself critical for cardiac valve and septum development. Represses transcription by the cardiac transcriptional activators GATA4 and GATA6. [UniProtKB/Swiss-Prot Function]