

Product datasheet for **RG228163**

HES7 (NM_001165967) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: HES7 (NM_001165967) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: HES7
Synonyms: bHLHb37; SCDO4
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG228163 representing NM_001165967
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGTCACCCGGGATCGAGCTGAGAATAGGGACGGCCCAAGATGCTCAAGCCGCTTGTGGAGAAGCGGC
 GCCGGGACCGCATCAACCGCAGCCTGGAAGAGCTGAGGCTGCTGCTGCTGGAGCGGACCCGGGACCAGAA
 CCTCCGGAACCCGAAGCTGGAGAAAGCGGAGATATTGGAGTTCGCCGTGGGCTACTTGAGGGAGCGAAGC
 CGGGTGGAGCCCCGGCCGCGGGCTCCAGGGTTCCCGGTCCCAGTCCAGGACGCCGAGGCGCTCG
 CCAGCTGCTACTTGTCCGGTTTCCGCGAGTGCCTGCTTCGCTTGGCGGCCTTCGCGCACGACGCCAGCCC
 GGCCGCCCGCCAGCTCTTCTCCGCGCTGCACGGCTATCTGCGCCCAAAACCGCCCCGGCCCAAGCCG
 GTAGATCCGAGGCTCCAGCGCCGCGCCATCCCTGGACCCCGCCGACCCGGCCCTTGGCCCTGCGCTGC
 ACCAGCGCCCCCAGTGCACCAGGGCCACCCTAGCCCGCGCTGCGCATGGTCCCCATCCCTCTGCTCCCC
 GCGCGCCGGGATTCTGGCGCGCCGGCGCCCTCACCGGACTGCTGCCGCGCCACCGCCGCTCACAGA
 CAAGACGGGGCGCCAAGGCCCGCTGCCCGCCGCGCCGCTTCTGGAGACCTTGGCCC

ACGCGTACGCGGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG228163 representing NM_001165967
 Red=Cloning site Green=Tags(s)

MVTRDRAENRDGPKMLKPLVEKRRRDRINRSLEELRLLLLERTRDQNLRNPKLEKAEILEFAVGYLRERS
 RVEPPAAAAPGVPRSPVQDAEALASCYL SGFRECLLR LAAF AHDASPAARAQLFSALHGYL RPKPPRPKP
 VDPRPPAPRPSLDPAAPALGPALHQRPVHQGHPSPRCAWSPSLCSPRAGDSGAPAPLTGLLPPPPPPHR
 QDGAPKAPLPPPPAFWRPWP

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001165967

ORF Size: 690 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.

RefSeq: [NM_001165967.2](#)

RefSeq Size: 1699 bp

RefSeq ORF: 693 bp

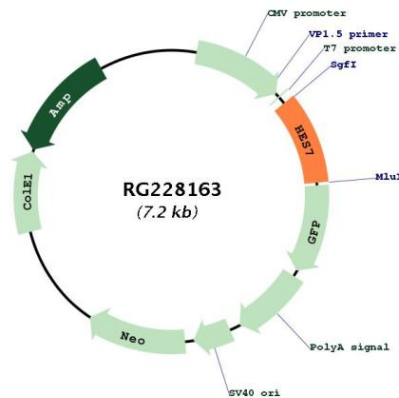
Locus ID: 84667

UniProt ID: [F8VPC9](#)

Cytogenetics: 17p13.1

Gene Summary: This gene encodes a member of the hairy and enhancer of split family of bHLH transcription factors. The mouse ortholog of this gene is regulated by Notch signaling. The protein functions as a transcriptional repressor, and is implicated in correct patterning of the axial skeleton. A mutation in this gene has been shown to result in spondylocostal dysostosis. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Sep 2009]

Product images:



Circular map for RG228163