

Product datasheet for **RG215311**

HES5 (NM_001010926) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: HES5 (NM_001010926) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: HES5
Synonyms: bHLHb38
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG215311 representing NM_001010926
Red=Cloning site **Blue**=ORF **Green**=Tags(s)

TTTGTAAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCCCCAGCACTGTGGCGTGGAGCTGCTCAGCCCCAAAGAGAAAAACCGACTGCGGAAGCCGGTGG
TGGAGAAGATGCGCCGCGACCGCATCAACAGCAGCATCGAGCAGCTGAAGCTGCTGAGCAGGAGTT
CGCGCGGCACAGCCCACTCCAAGCTGGAGAAGGCCGACATCCTGGAGATGGCTGTCAGCTACCTGAAG
CACAGCAAAGCCTTCGTCGCCGCCGCCGCCCAAGAGCCTGCACAGGACTACAGCGAAGGCTACTCGT
GGTGCCTGCAGGAGGCCGTGCAGTTCCTGACGCTCCACGCCGCCAGCAGACGACGAGATGAAGCTGCTGTA
CCACTTCCAGCGCCCCCGGCCGCCGCCGCCGCCGCCAAGGAGCCCAAGGCCCGGGCGCCGCCGCC
CCGCCCGCGCTCTCCGCCAAGGCCACCGCCGCCGCCGCCGCCGCCACCGCCCGCTGCGGCCTCTGGC
GGCCCTGG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG215311 representing NM_001010926
Red=Cloning site **Green**=Tags(s)

MAPSTVAVELLSPKEKNRLRKPVVEKMRRDRINSSIEQLKLLLEQEFARHQPNKLEKADILEMAVSYLK
HSKAFVAAAGPKSLHQDYSEGYSWCLQEAVQFLTLHAASDTQMKLLYHFQRPAAAPAAKEPKAPGAAP
PPALSAKATAAAAAHQACGLWRPW

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI



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Cloning Scheme:



ACCN: NM_001010926

ORF Size: 498 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_001010926.4](#)

RefSeq Size: 1306 bp

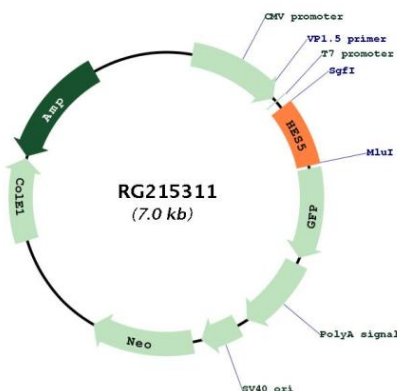
RefSeq ORF: 501 bp

Locus ID: 388585

UniProt ID: [Q5TA89](#)

Cytogenetics:	1p36.32
Protein Families:	Druggable Genome, ES Cell Differentiation/IPS
Protein Pathways:	Notch signaling pathway
Gene Summary:	This gene encodes a member of a family of basic helix-loop-helix transcriptional repressors. The protein product of this gene, which is activated downstream of the Notch pathway, regulates cell differentiation in multiple tissues. Disruptions in the normal expression of this gene have been associated with developmental diseases and cancer. [provided by RefSeq, Dec 2008]

Product images:



Circular map for RG215311