

Product datasheet for **RG226984**

HES6 (NM_001142853) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	HES6 (NM_001142853) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	HES6
Synonyms:	bHLHb41; bHLHc23; C-HAIRY1; HES-6
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG226984 representing NM_001142853 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCGCCACCCGCGGCCTGGCCGGGACCGTGTGGCCGTGAGGATGAGGACGGCTGGGAGACGCGAG
GGGACCGCAAGGCCCGGAAGCCCTGGTGGAGAAGAAGCGGCGCGCGGATCAACGAGAGCCTGCAGGA
GCTGCGGCTGCTGCTGGCGGGCGCCGAGGTGCAGGCCAAGCTGGAGAACCCGAAGTCTGGAGCTGACG
GTGCGGGGGTCCAGGGTGTGCTGCGGGGCCGGCGCGAGCGCGAGCAGCTGCAGGCCGAAGCGAGCG
AGCGCTTCGCTGCCGGCTACATCCAGTGCATGCACGAGGTGCACACGTTCTGTCCACGTGCCAGGCCAT
CGACGCTACCGTCTGCTGCCGAGCTCCTGAACCATCTGCTCGAGTCCATGCCGCTGCGTGAGGGCAGCAGC
TTCCAGGATCTGCTGGGGGACGCCCTGGCGGGGCCACCTAGAGCCCTGGACGGAGTGGCTGGCCTGCGG
GGGGCGCTCCGGGATCCCAATACCCAGCCCCCGGGTCTGGGGACGACCTGTGCTCCGACCTGGAGGA
GGCCCCCTGAGGCTGAAGTGAAGTCAAGGCTCCTGCTGAGGGGCCGACTTGGTGCCCGCAGCCCTGGGCAGC
CTGACCACAGCCCAAATTGCCCGGAGTGTCTGGAGGCCTTGG

ACGCGTACGCGGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG226984 representing NM_001142853
Red=Cloning site Green=Tags(s)

MAPPAAPGRDRVGREDEDGWETRGRDKARKPLVEKRRRARNESLQELRLLLAGAIEVQAKLENAEIVLELT
 VRRVQGVLRGRAREREQLQAEASERFAAGYIQCMHEVHTFVSTCQAI DATVAAELLNHLLSMP LREGSS
 FQDLLGDALAGPPRAGRSGWPAGGAGPSPIPSPPGPGDDLCS DLEEPEAEELSQAPAEGPDLVPAALGS
 LTTA QIARSVWRPW

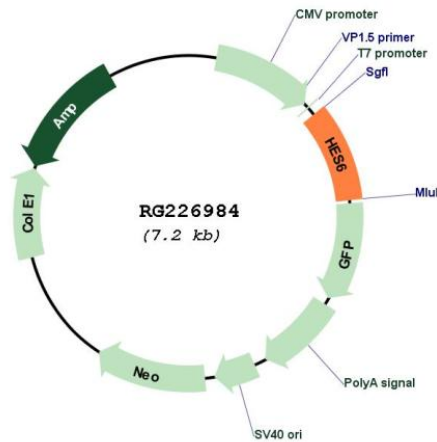
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001142853

ORF Size: 666 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_001142853.1 , NP_001136325.1
RefSeq Size:	1380 bp
RefSeq ORF:	669 bp
Locus ID:	55502
UniProt ID:	Q96HZ4
Cytogenetics:	2q37.3
Protein Families:	Druggable Genome, Transcription Factors
Gene Summary:	This gene encodes a member of a subfamily of basic helix-loop-helix transcription repressors that have homology to the Drosophila enhancer of split genes. Members of this gene family regulate cell differentiation in numerous cell types. The protein encoded by this gene functions as a cofactor, interacting with other transcription factors through a tetrapeptide domain in its C-terminus. Alternatively spliced transcript variants encoding different isoforms have been described.[provided by RefSeq, Dec 2008]