

Product datasheet for **RG215012**

HELT (NM_001029887) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	HELT (NM_001029887) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	HELT
Synonyms:	bHLHb44; HCM1228; HESL; Mgn
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG215012 representing NM_001029887 Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTGAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGTCAGACAAGCTCAAGGAACGCAAAGTGAGTCGGCTGAGCCCAAATGGCACTTGCGCCCTGGTGGTGG
 AGGCATCTGACTACCGACCCGCCACTTGGGTGGACCGATGGCAGGGAAGTGCCCGCACGGGACTTTGAG
 TGTGGAGGAATCTCGAGTGAGAACCCCGTTTCTCATAAAGTGATAGAAAAGCGGAGGAGGGACAGGATC
 AACCGTGCTTGAACGAGCTGGGCAAGACAGTGCCCATGGCCTTGCGAAGCAGGGCGAACCTCAGGAGG
 CTCTGGCGCAGATCCGCAGCCGCTCGCTCGTGGTCTCTCCAGCGCCACAGTGCCCGACCAGCAGGC
 GCTGGGCCGCTGCGAGGGGCCCTTCTCTCTTTGCAGAGTTCCGGGAAGCTGGAGAAGGCGGAGATCCTC
 GAGATGACCGTTTCAGTACCTGAGAGCACTGCACTCCGCTGATTTTCCCGGGGAAGGGAAGGAGCAGAAC
 TTCTAGCGGAGTTTGCCAACTACTTCCACTATGGCTACCACGAGTGCATGAAGAACTGGTGCATTACCT
 CACCACGGTGGAGCGGATGGAGACCAAGGACACGAAGTACGCGCGCATCTCGCCTTCTTGCACTCCAAG
 GCCCGCTGGGCGCGGAGCCCGCCTTCCGCGCTGGGTTCGCTCCCGGAGCCGATTTCTCCTATCAGC
 TGACCCCTGCGGGGCCGAATTCGCTGGTACAGCCCGGCGAGGCCGCTGTGTTCCCGCAGGGCTCTGG
 TGCCGGGCCTTTCCCTGGCCGCTGGCGCGGCCCGCAGCCCCGCGCTGCCCTACCTGCCAGCGCGCCA
 GTGCCGCTCGCTAGCCCAGCGCAGCAGCACAGCCCTTCTGACACCGGTGCAGGCGCTGGACCGGCATT
 ACCTCAACCTGATCGGCCAGCGCACCCCAACGCCCTTAACCTGCACACGCCCGCAGACCCCCCGGTGCT
 C

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA


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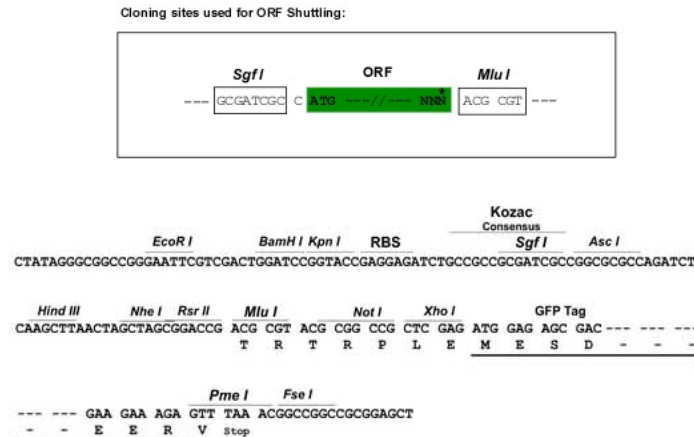
Protein Sequence: >RG215012 representing NM_001029887
 Red=Cloning site Green=Tags(s)

MSDKLKERKVSRLSPNGTCALVVEASDSPTRHLGGPMAGKCPHGTLVVEESRVRTVPVSHKVIEKRRRDRI
 NRCLNELGKTVPMALAKQGEPEALAQIRSRVRSLLSSATVPDQALGRCEGPFLLLQSSGKLEKAEIL
 EMTVQYLRLHSADFPGRGREKAELLAFAEFANYFHYGYHECMKNLVHYLTTVERMETKDTKYARILAFQSK
 ARLGAEPAPFPPLGSLPEPDFSYQLHPAGPEFAGHSPGEAAVFPQSGSAGPFPWPPGAARSPALPYLPSPAP
 VPLASPAQQHSPFLTPVQGLDRHYLNLIGHAHPNALNLHTPQHPPVL

TRTRPLE – GFP Tag – V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001029887

ORF Size: 981 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_001029887.1, NP_001025058.1

RefSeq Size: 984 bp

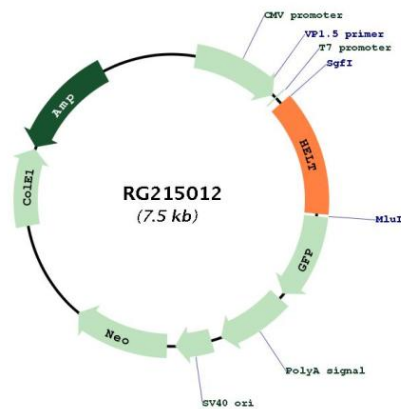
RefSeq ORF: 984 bp

Locus ID: 391723

Cytogenetics: 4q35.1

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

Product images:



Circular map for RG215012