

Product datasheet for RC215012

HELT (NM_001029887) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	HELT (NM_001029887) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	HELT
Synonyms:	bHLHb44; HCM1228; HESL; Mgn
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC215012 representing NM_001029887 Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTGAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCCGCATCGCC

ATGTCAGACAAGCTCAAGGAACGCAAAGTGAGTCGGCTGAGCCCAATGGCACTTGCGCCCTGGTGGTGG
 AGGCATCTGACTCACCAGCCCGCACTTGGGTGGACCGATGGCAGGGAAGTGCCCGCACGGGACTTTGAG
 TGTGGAGGAATCTCGAGTGAGAACCCCGTTTCTCATAAAGTGATAGAAAAGCGGAGGAGGGACAGGATC
 AACCGTGCTTGAACGAGCTGGCAAGACAGTGCCCATGGCCTTGGCGAAGCAGGGCGAACCTCAGGAGG
 CTCTGGCGCAGATCCGCAGCCGCTCGCTCGTGGTCTCTCCAGCGCCACAGTGCCCGACCAGCAGGC
 GCTGGGCCGCTGCGAGGGGCCCTTCTCTCTTTGCAGAGTTCCGGGAAGCTGGAGAAGGCGGAGATCCTC
 GAGATGACCGTTTCAGTACCTGAGAGCACTGCACTCCGCTGATTTTCCCGGGGAAGGGAAGGAGAGAAC
 TTCTAGCGGAGTTTGCCAACTACTTCCACTATGGCTACCACGAGTGCATGAAGAACTGGTGCATTACCT
 CACCACGGTGGAGCGGATGGAGACCAAGGACACGAAGTACGCGCGCATCTCGCCTTCTTGCACTCCAAG
 GCCCGCTGGGCGCGGAGCCCGCCTTCCGCGCTGGGTTCGCTCCCGGAGCCGATTTCTCTATCAGC
 TGACCCCTGCGGGGCCGAATTCGCTGGTACAGCCCGGCGAGGCCGCTGTGTTCCCGCAGGGCTCTGG
 TGCCGGGCCTTTCCCTGGCGCCTGGCGCGGCCCGCAGCCCCGCGTGCCCTACCTGCCAGCGCGCCA
 GTGCCGCTCGCTAGCCCAGCGCAGCAGCACAGCCCTTCTGACACCGGTGCAGGGCCTGGACCGGCATT
 ACCTCAACCTGATCGGCCAGCGCACCCCAACGCCCTTAACCTGCACACGCCCGCAGACCCCCGGTGCT
 C

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA


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Protein Sequence: >RC215012 representing NM_001029887
 Red=Cloning site Green=Tags(s)

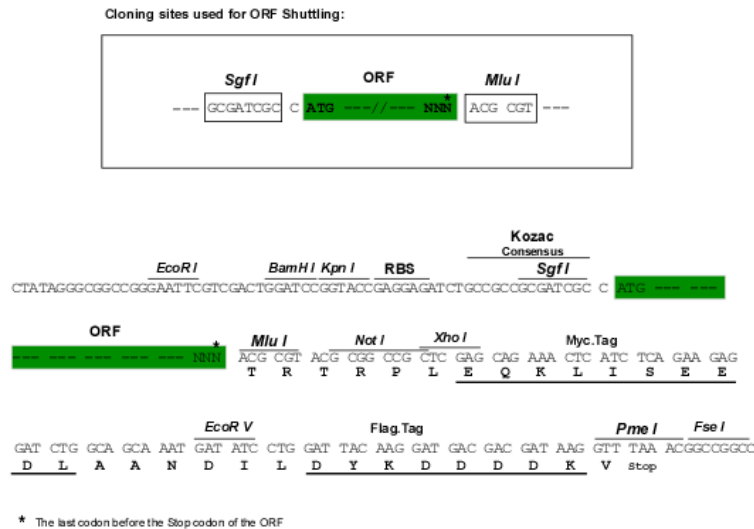
MSDKLKERKVSRLSPNGTCALVVEASDSPTRHLGGPMAGKCPHGTLVVEESRVRTVPVSHKVIKRRRRDRI
 NRCLNELGKTVPMALAKQGEPEALAQIRSRVRSVLSSATVPDQALGRCEGPFLLLQSSGKLEKAEIL
 EMTVQYLRLHSADFPGRGKAEALLAEFANYFHYGYHECMKNLVHYLTTVERMETKDTKYARILAFQSK
 ARLGAEPAPPLGSLPEPDFSYQLHPAGPEFAGHSPGEAAVFPQGSAGAPFPWPPGAARSPALPYLPSAP
 VPLASPAQQHSPFLTPVQGLDRHYLNLIGHAHPNALNLHTPQHPPVL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8027_e08.zip

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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: NM_001029887.1, NP_001025058.1

RefSeq Size: 984 bp

RefSeq ORF: 984 bp

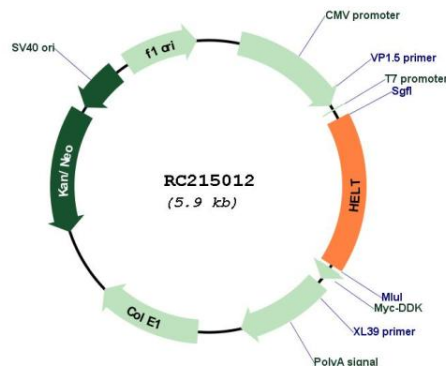
Locus ID: 391723

Cytogenetics: 4q35.1

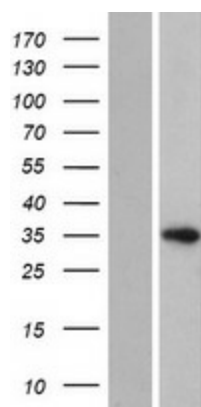
MW: 35.6 kDa

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

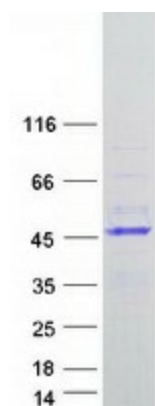
Product images:



Circular map for RC215012



Western blot validation of overexpression lysate (Cat# [LY422265]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC215012 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified HELT protein (Cat# [TP315012]). The protein was produced from HEK293T cells transfected with HELT cDNA clone (Cat# RC215012) using MegaTran 2.0 (Cat# [TT210002]).