

Product datasheet for RC201562

ELAVL1 (NM_001419) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ELAVL1 (NM_001419) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	ELAVL1
Synonyms:	ELAV1; Hua; HUR; MeIG
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC201562 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCCGCATCGCC

ATGTCTAATGGTTATGAAGACCACATGGCCGAAGACTGCAGGGGTGACATCGGGAGAACGAATTTGATCG
 TCAACTACCTCCCTCAGAACATGACCCAGGATGAGTTACGAAGCCTGTTACGAGCATTGGTGAAGTTGA
 ATCTGCAAACTTATTCGGGATAAAGTAGCAGGACACAGCTTGGGCTATGGCTTTGTGAACACGTGACC
 GCGAAGGATGCAGAGAGAGCGATCAACACGCTGAACGGCTTGAGGCTCCAGTCAAAAACCATTAAGGTGT
 CGTATGCTCGCCGAGCTCAGAGGTGATCAAAGACGCCAACTTGTACATCAGCGGGCTCCCGCGGACCAT
 GACCCAGAAGGACGTAGAAGACATGTTCTCTCGGTTTGGGCGGATCATCAACTCGCGGGTCTCGTGGAT
 CAGACTACAGTTTGTCCAGAGGGGTTCGCTTTATCCGGTTTGACAAACGGTCGGAGGCAGAAGAGGCAA
 TTACCAGTTTCAATGGTCATAAACCCCAAGTTCTCTGAGCCCATCACAGTGAAGTTTGCAGCCAAACC
 CAACCAGAAACAAACGTGGCACTCCTCTCGCAGCTGTACCACTCGCCAGCGCGACGGTTCGGAGGCCCC
 GTTACCACCAGGCGCAGAGATTAGGTTCTCCCCATGGGCGTCGATCATGAGCGGGCTCTCTGGCG
 TCAACGTGCCAGGAAACGCTCCTCCGGCTGGTGCAATTTTCATCTACAACCTGGGCGAGGATGCCGACGA
 GGGGATCTCTGGCAGATGTTTGGGCCGTTTGGTGCCGTACCAATGTGAAAGTGATCCGCGACTTCAAC
 ACCAACAAGTGCAAAGGTTTGGCTTTGTGACCATGACAACTATGAAGAAGCCGCGATGGCCATAGCCA
 GCCTGAACGGCTACCGCTGGGGACAAAATCTTACAGTTTCTTCAAAACCAACAAGTCCACAAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA


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Protein Sequence: >RC201562 protein sequence
 Red=Cloning site Green=Tags(s)

MSNGYEDHMAEDCRGDIGRTNLIVNYLPQNMTQDELRSLFSSIGEVESAKLIRDKVAGHSLGYGFVNYVT
 AKDAERAINTLNLRLQSKTIKVSYPSEVIKDALNYISGLPRTMTQKDVEDMFSRFGRINSRVLVD
 QTTGLSRGVAFIRFDKRSEAEAAITSFNHGKPPGSSEPI TVKFAANPNQNKNVALLSQLYHSPARRFGGP
 VHHQAQRFRFSPMGVDHMSGLSGVNVPGNASSGWCIFIYNLQDADEGILWQMFPGPGAVTNVKVIRDFN
 TNKCKGFGFVTMTNYEEAAMAIASLNGYRLGDKILQVSFKTNKSHK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6004_c09.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001419

ORF Size: 978 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_001419.3](#)

RefSeq Size: 6075 bp

RefSeq ORF: 981 bp

Locus ID: 1994

UniProt ID: [Q15717](#)

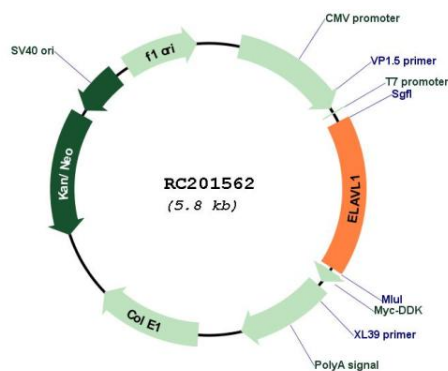
Cytogenetics: 19p13.2

Domains: RRM

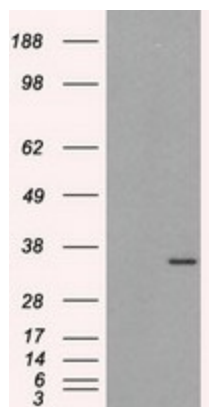
MW: 36.1 kDa

Gene Summary: The protein encoded by this gene is a member of the ELAVL family of RNA-binding proteins that contain several RNA recognition motifs, and selectively bind AU-rich elements (AREs) found in the 3' untranslated regions of mRNAs. AREs signal degradation of mRNAs as a means to regulate gene expression, thus by binding AREs, the ELAVL family of proteins play a role in stabilizing ARE-containing mRNAs. This gene has been implicated in a variety of biological processes and has been linked to a number of diseases, including cancer. It is highly expressed in many cancers, and could be potentially useful in cancer diagnosis, prognosis, and therapy. [provided by RefSeq, Sep 2012]

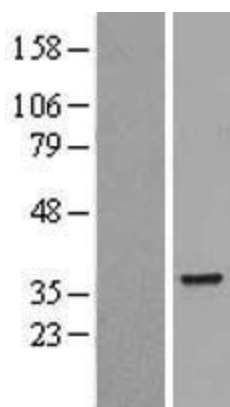
Product images:



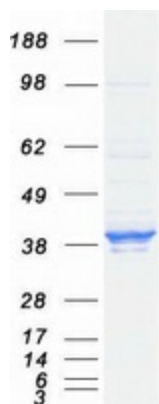
Circular map for RC201562



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY ELAVL1 (Cat# RC201562, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-ELAVL1 (Cat# [TA500887]). Positive lysates [LY400549] (100ug) and [LC400549] (20ug) can be purchased separately from OriGene.



Western blot validation of overexpression lysate (Cat# [LY400549]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC201562 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified ELAVL1 protein (Cat# [TP301562]). The protein was produced from HEK293T cells transfected with ELAVL1 cDNA clone (Cat# RC201562) using MegaTran 2.0 (Cat# [TT210002]).