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Product datasheet for MG204748

Elavl1 (BC016194) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Elavl1 (BC016194) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Elavl1
Synonyms:	HUR
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence:

>MG204748 representing BC016194
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGTCTAATGGTTATGAAGACCACATGGCGGAAGACTGCAGGGATGACATTGGGAGAACGAATTTAATTG
TCAACTACCTCCCTCAGAACATGACCCAAGAGGAACTACGAAGTCTGTTCAGCAGCATTGGCGAGGTTGA
ATCTGCAAAGCTTATTCGGGATAAAGTAGCAGGACACAGCTTGGGCTACGGTTTTGTGAACTATGTGACT
GCAAAAGATGCAGAGAGAGCAATCAGCACACTGAACGGCTTGAGACTCCAGTCCAAAACCATTAAGGTGT
CATATGCTCGCCCAAGCTCAGAGGTCATCAAAGATGCCAACTTATACATCAGTGGGCTCCCAAGGACCAT
GACACAGAAGGATGTGGAAGACATGTTTTCTCGGTTTGGGCGAATCATCAACTCCAGGGTCCTTGTGGAT
CAGACCACAGGTTTGTCCAGAGGGGTTGCCTTTATCCGGTTTGACAAACGGTCAGAAGCAGAAGAGGCAA
TTACCAGTTTCAATGGTCATAAACCCCCAGGTTCCTCCGAGCCCATCACAGTGAAGTTTGCAGCCAATCC
CAACCAGAACAAAAACATGGCTCTCCTCTCGCAGCTGTACCACTCGCCTGCTAGGCGGTTTGGAGGCCCT
GTACACCACCAGGCACAGAGATTCAGGTTCTCCCCTATGGGTGTAGATCACATGAGTGGGATTTCTGGTG
TCAATGTCCCCGGCAATGCTTCCTCGGGCTGGTGCATCTTCATCTACAACCTTGGGCAAGACGCCGATGA
GGGGATCCTCTGGCAGATGTTTGGCCCCTTTGGTGCAGTTACCAATGTGAAAGTGATTCGTGATTTCAAC
ACCAACAAGTGCAAAGGGTTTGGTTTTGTGACCATGACAAACTATGAAGAAGCTGCAATGGCCATAGCAA
GTCTGAACGGCTACCGCCTGGGGGACAAAATTTTACAGGTTTCCTTCAAAACCAACAAGTCCCACAAA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

View online »

Protein Sequence:

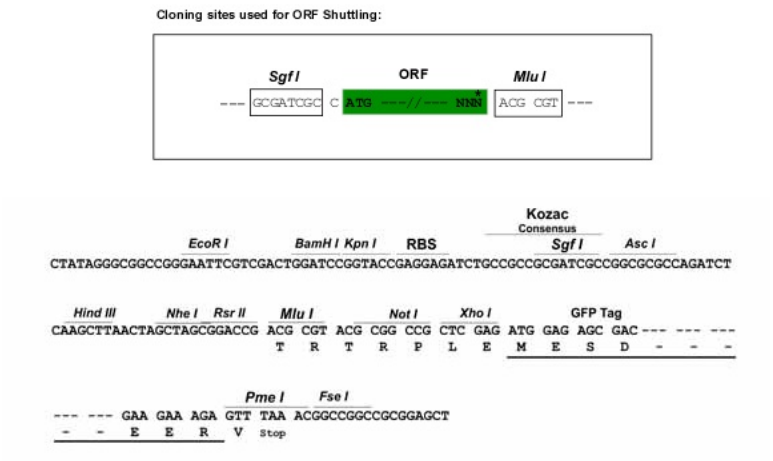
>MG204748 representing BC016194
Red=Cloning site Green=Tags(s)

MSNGYEDHMAEDCRDDIGRTNLIVNYLPQNMTQEELRSLFSSIGEVESAKLIRDKVAGHSLGYGFVNYVT
AKDAERAISTLNGLRLQSKTIKVSYARPSSEVIKDANLYISGLPRTMTQKDVEDMFSRFGRIINSRVLVD
QTTGLSRGVAFIRFDKRSEAEEAITSFNGHKPPGSSEPITVKFAANPNQNKNMALLSQLYHSPARRFGGP
VHHQAQRFRFSPMGVDHMSGISGVNVPGNASSGWCIFIYNLGQDADEGILWQMFGPFGAVTNVKVIRDFN
TNKCKGFGFVTMTNYEEAAMAIASLNGYRLGDKILQVSFKTNKSHK

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: BC016194

ORF Size: 980 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: BC016194

RefSeq Size: 2475 bp

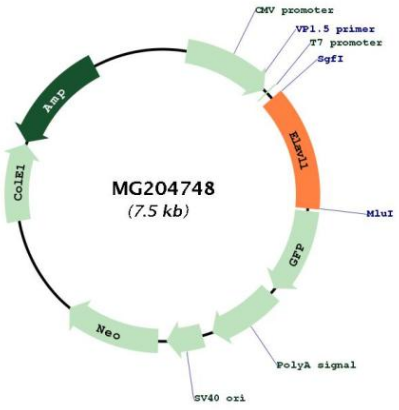
RefSeq ORF: 980 bp

Locus ID: 15568

Cytogenetics: 8 2.0 cM

Gene Summary: RNA-binding protein that binds to the 3' UTR region of mRNAs and increases their stability. Involved in embryonic stem cells (ESCs) differentiation: preferentially binds mRNAs that are not methylated by N6-methyladenosine (m6A), stabilizing them, promoting ESCs differentiation (PubMed:24394384). Binds to poly-U elements and AU-rich elements (AREs) in the 3' UTR of target mRNAs. Binds avidly to the AU-rich element in FOS and IL3/interleukin-3 mRNAs. In the case of the FOS AU-rich element, binds to a core element of 27 nucleotides that contain AUUUA, AUUUUA, and AUUUUUA motifs. Binds preferentially to the 5'-UUUU[AG]UUU-3' motif in vitro (By similarity). With ZNF385A, binds the 3' UTR of p53/TP53 mRNA to control their nuclear export induced by CDKN2A. Hence, may regulate p53/TP53 expression and mediate in part the CDKN2A anti-proliferative activity. May also bind with ZNF385A the CCNB1 mRNA (PubMed:21402775). Increases the stability of the leptin mRNA harboring an AU-rich element (ARE) in its 3' UTR (PubMed:27616329).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG204748