

Product datasheet for **MG225411**

Elavl1 (NM_010485) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Elavl1 (NM_010485) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Elavl1
Synonyms:	2410055N02Rik; Hua; HUR; W91709
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG225411 representing NM_010485 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTCTAATGGTTATGAAGACCACATGGCGGAAGACTGCAGGGATGACATTGGGAGAACGAATTTAATTG
TCAACTACCTCCCTCAGAACATGACCCAAGAGGAACTACGAAGTCTGTTTCAGCAGCATTGGCGAGGTTGA
ATCTGCAAAGCTTATTCGGGATAAAGTAGCAGGACACAGCTTGGGCTACGGTTTTGTGAAGTATGTGACT
GCAAAAGATGCAGAGAGCAATCAGCACACTGAACGGCTTGAGACTCCAGTCCAAAACCATTAAGGTGT
CATATGCTCGCCCAAGCTCAGAGGTCATCAAAGATGCCAACTTATACATCAGTGGGCTCCCAAGGACCAT
GACACAGAAGGATGTGGAAGACATGTTTTCTCGGTTTGGGCGAATCATCAACTCCAGGGTCTTGTGGAT
CAGACCACAGTTTTGCCAGAGGGTTCCTTTATCCGGTTTGACAAACGGTCAGAAGCAGAAGAGGCAA
TTACCAGTTTCAATGGTCATAAACCCCAAGTTCCTCCGAGCCCATCACAGTGAAGTTTGCAGCCATCC
CAACCAGAACAAAACATGGCTCTCCTCTCGCAGCTGTACCACTCGCCTGCTAGGCGGTTTGGAGGCCCT
GTACACCACCAGGCACAGAGATTCAGGTTCTCCCTATGGGTGTAGATCATAGAGTGGGATTTCTGGTG
TCAATGTCCCGGCAATGCTTCTCGGGCTGGTGCATCTTCATCTACAACCTTGGGCAAGACGCCGATGA
GGGATCTCTGGCAGATGTTTGGCCCCTTGGTGCAGTTACCAATGTGAAAGTATTGATTCGATTTCAAC
ACCAACAAGTGCAAAGGTTTGGTTTTGTGACCATGACAAACTATGAAGAAGCTGCAATGGCCATAGCAA
GTCTGAACGGCTACCGCTGGGGACAAAATTTACAGGTTTCTTCAAACCAACAAGTCCACAAA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG225411 representing NM_010485
Red=Cloning site Green=Tags(s)

MSGNGYEDHMAEDCRDDIGRTNLI VNYLPQNMTQEELRSLFSSIGEVESAKLIRDKVAGHSLGYGFVNYVT
 AKDAERAISTLNLRLQSKTIKVSYPSEVIKIDANL YISGLPRTMTQKDVEDMFSRFGRINSRVLVD
 QTTGLSRGVAFIRFDKRSEAEAAITSFNGHKPPGSSEPI TVKFAANPNQKNMALLSQLYHSPARRFGGP
 VHHQAQRFRRFSPMGVDHMSGISGVNVPGNASSGWCIFIYNLQDQDADEGILWQMFPGFPAVTNVKVI RDFN
 TNKCKGFGFVTMTNYEEAAMAIASLNGYRLGDKILQVSFKTNKSHK

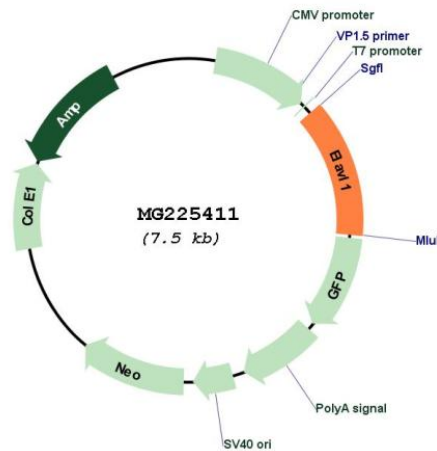
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_010485

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:	<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_010485.3 , NP_034615.2
RefSeq Size:	6030 bp
RefSeq ORF:	981 bp
Locus ID:	15568
UniProt ID:	P70372
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]