

Product datasheet for **SC118902**

EEF1A2 (NM_001958) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	EEF1A2 (NM_001958) Human Untagged Clone
Tag:	Tag Free
Symbol:	EEF1A2
Synonyms:	DEE33; EEF1AL; EF-1-alpha-2; EF1A; EIEE33; HS1; MRD38; STN; STNL
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF within SC118902 sequence for NM_001958 edited (data generated by NextGen Sequencing)

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ATGGGCAAGGAGAAGACCCACATCAACATCGTGGTCATCGGCCACGTGGACTCCGGAAAG
TCCACCACCACGGGCCACCTCATCTACAAATGCGGAGGTATTGACAAAAGGACATTGAG
AAGTTCGAGAAGGAGGCGGCTGAGATGGGAAGGGATCCTTCAAGTATGCCTGGGTGCTG
GACAAGCTGAAGGCGGAGCGTGAGCGCGGCATCACCATCGACATCTCCCTCTGGAAGTTC
GAGACCACCAAGTACTACATCACCATCATCGATGCCCGGCCACCGGACTTCATCAAG
AACATGATCACGGGTACATCCCAGGCGGACTGCGCAGTGTGATCGTGGCGGCGGCGTG
GGCGAGTTCGAGGCGGGCATCTCCAAGAATGGGCAGACGCGGGAGCATGCCCTGTGGCC
TACACGCTGGGTGTGAAGCAGCTCATCGTGGCGTGAACAAAATGGACTCCACAGAGCCG
GCCTACAGCGAGAAGCGCTACGACGAGATCGTCAAGGAAGTCAGCGCCTACATCAAGAAG
ATCGGCTACAACCCGGCCACCGTCCCTTTGTGCCATCTCCGGCTGGCACGGTGACAAC
ATGCTGGAGCCCTCCCCAACATGCCGTGGTTC AAGGGCTGGAAGGTGGAGCGTAAGGAG
GGCAACGCAAGCGCGTGTCCCTGCTGGAGGCCCTGGACACCATCTGCCCGCCACGCGC
CCCACGGACAAGCCCTGCGCTGCCGTGCAGGACGTGTACAAGATTGGCGGCATTGGC
ACGGTGCCCGTGGGCCGGGTGGAGACCGGCATCTGCGGCCGGGCATGGTGGTGACCTTT
GCGCCAGTGAACATCACCACTGAGGTGAAGTCAAGTGGAGATGCACCACGAGGCTCTGAGC
GAAGCTCTGCCCGGCGACAACGTCGGCTTCAATGTGAAGAACGTGTCGGTGAAGGACATC
CGGCGGGGCAACGTGTGTGGGACAGCAAGTCTGACCCGCGCAGGAGGCTGCTCAGTTC
ACCTCCCAGGTATCATCCTGAACCACCCGGGCGAGATTAGCGCCGGCTACTCCCCGGTC
ATCGACTGCCACACAGCCACATCGCCTGCAAGTTTGGGAGCTGAAGGAGAAGATTGAC
CGGCGCTCTGGCAAGAAGCTGGAGGACAACCCCAAGTCCCTGAAGTCTGGAGACGCGGCC
ATCGTGGAGATGGTGGCGGAAAGCCCATGTGTGTGGAGAGCTTCTCCAGTACCCGCT
CTCGGCCCTTCGCCGTGCGCGACATGAGGCAGACGGTGGCCGTAGGCGTCATCAAGAAC
GTGGAGAAGAAGAGCGGCGCGCCGCAAGGTCACCAAGTCGGCGCAGAAGGCGCAGAAG
GCGGGCAAGTGA
    
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Clone variation with respect to NM_001958.2

5' Read Nucleotide Sequence:

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>OriGene 5' read for NM_001958 unedited
ACCTGGATTTGTAACCCGNACTTCACTATAGGGCGGCACAAGCAATTCGCACGAGGGAGA
CCTCGGCTCCGGNAATCACTGCAGCCCCCTCGCCCTGAGCCAGAGCACCCCGGGTCCCG
CCAGCCCCCTCACACTCCCAGCAAATGGGCAAGGAGAAGACCCACATCAACATCGTGGTC
ATCGGCCACGTGGACTCCGAAAGTCCACCACCACGGTTTTCTCATCTACAAATGCGGA
GGTATTGACAAAAGGACATTGAGAAGTTCGAGAAGGAGGCGGCTGAGATGGGGAAGGGA
TCCTTCAAGTATGCCTGGGTGCTGGACAAGCTGAAGGCGGAGCGTGAGCGCGGCATCACC
ATCGACATCTCCCTCTGGAAGTTCGAGACCACCAAGTACTACATCACCATCATCGATGCC
CCCGGCCACCGGACTTCATCAAGAACATGATCACGGGTACATCCAGGCGGACTGCGCA
GTGCTGATCGTGGCGGGCGGTGGCGAGTTCGAGGCGGGCATCTCCAAGAATGGGCAG
ACGCGGGAGCATGCCCTGCTGGCTACACGCTGGGTGTGAAGCAGCTCATCGTGGGCGTG
AACAAAATGGACTCCACAGAGCCGGCTACAGCGAGAAGCGCTACGACGAGATCGTCAAG
GAAGTCAGCGCTACATCAAGAAGATCGGCTACAACCCGGCCACCGTGCCTTTGTGCC
CTCTCCGGCTGGCACGGTGACAACATGCTGGAGCCCTCCCCACATGCCGTGGTTC AAGG
GCTGGAAGGTGGAGCGTAAGGAGGGCAACGCAANGCGCGTGTCCCTGCTGGNAGCCCTGG
ACACATNCTGCCCCCACGCGCCACGGACAGCCCTGCGCTGCCGCTGCAAAACGTGT
ACAAAATTGGCGGCATTGGCACCGTG
    
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3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_001958 unedited GGCGGTCACAGTGGAGCCACGCCGTCTCTGTTTCAGGAAACAGCTATGACCGGGCCGCAA TCTAGAGTCGAGTTTTTTTTTTTTTTTTTTAGGGTCTCTCACTTATTGGGAAAACACAC ACTGATCGTGGCGAGCCCTGGCCCCGGAACCTGGGGGGGGCGCGCTTTCCCGTGGAC AACCTCCACTGTCCATTGCGGCGCAGCCGGGGATCGGTGAGCCGTGGCCTCTGGCGCTC CACTGGCCCCGACTTCCGCGCCTTTTGCCTCGCACTTGTGACCTTGCCGGCGCCGCCGT CTTCTTCCACGTTCTTGATGACGCCTACGGCCACCGTCTGCCTTATGCTCCGCACTGT TAATCGGCCGATAAGCGGGTACTGGGAGAAGCTCCTCCACACATGGTCCTTTCCCGGCA CCATCTCCACGATGGCCGTGTCTCCAGACTTCAGGGACTTGGTGTGCCCCCCTCTTCT TGTCCGAGCGCCGTGTAATCTTCTCCTTCTCCTCCGCAACTTGCATGCCACTTTGTTCC GCGTGGTAGTCGATGACCGGGGAGTAGCCGGCGCCACCCTTGTCCGGGCGGGTCAAGGA TGATGGACCTGNGAGGTGAACCGAATCATCCTCCTGTTTCTGGGCACAATTGCCGGCT CCTTTTACTTTGGCCCCGCGGGCGTCCCTCACCCGAACCGGTTCTTTATATTTGAAAC CCACCCTTTNTTCTTGTAAAAGCTTCGCTTCAAAGCCCCGGGTGTCTCGGCCCGGCT AGCCCCGTGATGGTGTAGTTCTATTGCGCCCTTAGGCCCCNCCCGCCCCGGGCTTTA GATGCCCGTTTNTCCACTCGGCGCTGTGTGCCCTGGCCATACCACCCACTCTTTTAA AAGATACTGAAAAGAGAAGAGAGAG</p>
Restriction Sites:	NotI-NotI
ACCN:	NM_001958
Insert Size:	1890 bp
OTI Disclaimer:	<p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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</p>
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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq:	<u>NM_001958.2, NP_001949.1</u>
RefSeq Size:	1841 bp
RefSeq ORF:	1392 bp
Locus ID:	1917
UniProt ID:	<u>Q05639</u>
Cytogenetics:	20q13.33
Domains:	GTP_EFTU, GTP_EFTU_D3, GTP_EFTU_D2
Protein Families:	Druggable Genome
Gene Summary:	This gene encodes an isoform of the alpha subunit of the elongation factor-1 complex, which is responsible for the enzymatic delivery of aminoacyl tRNAs to the ribosome. This isoform (alpha 2) is expressed in brain, heart and skeletal muscle, and the other isoform (alpha 1) is expressed in brain, placenta, lung, liver, kidney, and pancreas. This gene may be critical in the development of ovarian cancer. [provided by RefSeq, Mar 2014]