

Product datasheet for **SC118902**

EEF1A2 (NM_001958) Human Untagged Clone

Product data:

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| 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
AACATGATCACGGGTACATCCCAGGCGGACTGCGCAGTGCTGATCGTGGCGGCGGCGTG
GGCGAGTTCGAGGCGGGCATCTCCAAGAATGGGCAGACGCGGGAGCATGCCCTGTGGCC
TACACGCTGGGTGAAGCAGCTCATCGTGGCGTGAACAAAATGGACTCCACAGAGCCG
GCCTACAGCGAGAAGCGCTACGACGAGATCGTCAAGGAAGTCAGCGCCTACATCAAGAAG
ATCGGCTACAACCCGGCCACCGTCCCTTTGTGCCATCTCCGGTGGCACGGTGACAAC
ATGCTGGAGCCCTCCCCAACATGCCGTGGTTCAGGGCTGGAAGGTGGAGCGTAAGGAG
GGCAACGCAAGCGCGTGTCCCTGCTGGAGGCCCTGGACACCATCTGCCCGCCACGCGC
CCCACGGACAAGCCCTGCGCTGCCGTGCAGGACGTGTACAAGATTGGCGGCATTGGC
ACGGTGCCCGTGGGCCGGGTGGAGACCGGCATCTGCGGCCGGGCATGGTGGTGACCTTT
GCGCCAGTGAACATCACCCTGAGGTGAAGTCAAGTGGAGATGCACCACGAGGCTCTGAGC
GAAGCTCTGCCCGGCGACAACGTCGGCTTCAATGTGAAGAAGTGTGCGTGAAGGACATC
CGGCGGGCAACGTGTGTGGGACAGCAAGTGTGACCCGCGCAGGAGGCTGCTCAGTTC
ACCTCCAGGTATCATCCTGAACCACCCGGGCGAGATTAGCGCCGGCTACTCCCGGTC
ATCGACTGCCACAGCCACATCGCTGCAAGTTTGGGAGCTGAAGGAGAAGATTGAC
CGGCGCTCTGGCAAGAAGCTGGAGGACAACCCCAAGTCCCTGAAGTCTGGAGACGCGGCC
ATCGTGGAGATGGTCCCGGAAAGCCCATGTGTGTGGAGAGCTTCCCAGTACCCGCT
CTCGGCCCTTCGCCGTGCGCGACATGAGGCAGACGGTGGCCGTAGGCGTCATCAAGAAC
GTGGAGAAGAAGAGCGGCGCGCCGCAAGGTCACCAAGTCGGCGCAGAAGGCGCAGAAG
GCGGGCAAGTGA
    
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Clone variation with respect to NM_001958.2

5' Read Nucleotide Sequence: >OriGene 5' read for NM_001958 unedited

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ACCTGGATTTGTAACCCGNACTTCACTATAGGGCGGCACAAGCAATTCGCACGAGGGAGA
CCTCGGCTCCGGNAATCACTGCAGCCCCCTCGCCCTGAGCCAGAGCACCCCGGGTCCCG
CCAGCCCCCTCACACTCCCAGCAAATGGGCAAGGAGAAGACCCACATCAACATCGTGGTC
ATCGGCCACGTGGACTCCGAAAGTCCACCACCACGGTTTTCTCATCTACAAATGCGGA
GGTATTGACAAAAGGACCATGAGAAGTTCGAGAAGGAGGCGGCTGAGATGGGAAGGGA
TCCTTCAAGTATGCCTGGGTGCTGGACAAGTGAAGGCGGAGCGTGAGCGCGGCATCACC
ATCGACATCTCCCTCTGGAAGTTCGAGACCACCAAGTACTACATCACCATCATCGATGCC
CCCGGCCACCGGACTTCAAGAAACATGATCACGGGTACATCCAGGCGGACTGCGCA
GTGCTGATCGTGGCGGGCGTGGCGAGTTCGAGGCGGGCATCTCCAAGAATGGGCAG
ACGCGGGAGCATGCCCTGCTGGCTACACGCTGGGTGTGAAGCAGCTCATCGTGGGCGTG
AACAAAATGGACTCCACAGAGCCGGCTACAGCGAGAAGCGCTACGACGAGATCGTCAAG
GAAGTCAGCGCTACATCAAGAAGATCGGCTACAACCCGGCCACCGTGCCTTTGTGCC
CTCTCCGCTGGCACGGTGACAACATGCTGGAGCCCTCCCCACATGCCGTGGTTCAGG
GCTGGAAGGTGGAGCGTAAGGAGGGCAACGCAANGCGGTGTCCCTGCTGNNAGCCCTGG
ACACATNCTGCCCCACGCGCCACGGACAGCCCTGCGCTGCCGCTGCAAAACGTGT
ACAAAATTGGCGGCATTGGCACCGTG
    
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| 3' Read Nucleotide Sequence: | >OriGene 3' read for NM_001958 unedited GGCGGTCACAGTGGAGCCACGCCGTCTCTGTTTCAGGAAACAGCTATGACCGGGCCGCAA TCTAGAGTCGAGTTTTTTTTTTTTTTTTAGGGTCTCTCACTTATTGGGAAAACACAC ACTGATCGTGGCGAGCCCTGGCCCCGGAACCTGGGGGGGCGCGCTTCCCGTGAC AACCTCCACTGTCCATTGCGGCGCAGCCGGGATCGGTGAGCCGTGGCCTCTGGCGTC CACTGGCCCGACTTCCGCGCCTTTGCGTCGCACTTGTGACCTTGCCGGCGCCGCGCT CTTCTTCCACGTTCTTGATGACGCCTACGGCCACCGTCTGCCTTATGCTCCGCACTGT TAATCGGCCGATAAGCGGGTACTGGGAGAAGCTCCTCCACACATGGTCCTTCCCGCA CCATCTCCACGATGGCCGTGTCTCCAGACTTCAGGGACTTGGTGTGCCCCCTCTTCT TGTCCGAGCGCCGTGTAATCTTCTCCTTCTCCTCCGCAACTTGCATGCCACTTTGTTCC GCGTGGTAGTCGATGACCGGGGAGTAGCCGGCGCCACCTTGTCCGGGCGGGTCAAGGA TGATGGACCTGNGAGGTGAACCGAATCATCCTCCTGTTTCTGGGCACAACCTGCCGGCT CCTTTTACTTTGGCCCCGCGGGCGTCCCTCACCCGAACCGGTTCTTTATATTTGAAAC CCACCCTTTNTTCTTGAAAAGCTTCGCTTCAAAGCCCCGGGTGTCTCGGCCCGGCT AGCCCCGTGATGGTGTAGTTCTATTGCGCCCTTAGGCCCCNCCCGCCCCGGGCTTTA GATGCCCGTTTNTCCACTCGGCGCTGTGTGCCCTGGCCATACCACCCACTCTTTTAA AAGATACTGAAAAGAGAAGAGAGAG |
| Restriction Sites: | NotI-NotI |
| ACCN: | NM_001958 |
| Insert Size: | 1890 bp |
| OTI Disclaimer: | 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. |
| | 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 |
| 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_001958.2 , NP_001949.1 |
| RefSeq Size: | 1841 bp |

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|-------------------|---|
| RefSeq ORF: | 1392 bp |
| Locus ID: | 1917 |
| UniProt ID: | Q05639 |
| 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] |