

## Product datasheet for **SC124558**

### EEF1A1 (NM\_001402) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	EEF1A1 (NM_001402) Human Untagged Clone
Tag:	Tag Free
Symbol:	EEF1A1
Synonyms:	CCS-3; CCS3; EE1A1; EEF-1; EEF1A; eEF1A-1; EF-Tu; EF1A; GRAF-1EF; LENG7; PTI1
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >OriGene ORF within SC124558 sequence for NM\_001402 edited (data generated by NextGen Sequencing)

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ATGGGAAAGGAAAAGACTCATATCAACATTGTCGTCATTGGACACGTAGATTCCGGCAAG
TCCACCACTACTGGCCATCTGATCTATAAATGCGGTGGCATCGACAAAAGAACATTGAA
AAATTTGAGAAGGAGGCTGCTGAGATGGGAAAGGGCTCCTTCAAGTATGCCTGGGCTTG
GATAAACTGAAAGCTGAGCGTGAACGTGGTATCACCATTGATATCTCCTTGTGGAATTT
GAGACCAGCAAGTACTATGTGACTATCATTGATGCCCCAGGACACAGAGACTTTATCAAA
AACATGATTACAGGGACATCTCAGGCTGACTGTGCTGTCCTGATTGTTGCTGCTGGTGT
GGTGAATTTGAAGCTGGTATCTCCAAGAATGGGACAGACCCGAGAGCATGCCCTTCTGGCT
TACACACTGGGTGTGAAACAATAATTGTCGGTGTAAACAAAATGGATTCCAAGTACAGCA
CCCTACAGCCAGAAGAGATATGAGGAAATGTTAAGGAAGTCAGCACTTACATTAAGAAA
ATTGGCTACAACCCCGACACAGTAGCATTGTGCCAATTTCTGGTTGGAATGGTGACAAC
ATGCTGGAGCCAAGTCTAACATGCCTTGGTTCAAGGGATGGAAAGTCACCCGTAAGGAT
GGCAATGCCAGTGAACACGCTGCTTGAGGCTCTGGACTGCATCCTACCACCAACTCGT
CCAAGTACAAGCCCTTGCCTGCCTCCTCAGGATGTCTACAAAATTTGGTGGTATTGGT
ACTGTTCTGTTGGCCGAGTGGAGACTGGTGTCTCAAACCCGGTATGGTGGTCACTTTT
GCTCCAGTCAACGTTACAACGGAAGTAAAATCTGTGCAAAATGCACCATGAAGCTTTGAGT
GAAGCTCTTCTGGGACAATGTGGGCTTCAATGTCAAGAATGTGTCTGTCAAGGATGTT
CGTCGTGGCAACGTTGCTGGTGACAGCAAAAATGACCCACCAATGGAAGCAGCTGGCTTC
ACTGCTCAGGTGATTATCCTGAACCATCCAGGCCAAAATGACGCCGGCTATGCCCTGTA
TTGGATTGCCACCGCTCACATTGCATGCAAGTTTGTGAGCTGAAGGAAAAGATTGAT
CGCCGTTCTGGTAAAAAGCTGGAAGATGGCCCTAAATTTGAAGTCTGGTGTGCTGCC
ATTGTTGATATGGTTCTGGCAAGCCCATGTGTGTTGAGAGCTTCTCAGACTATCCACCT
TTGGGTGCTTTTCTGTTGCTGATATGAGACAGACAGTTGCGGTTGGGTGTCATCAAAGCA
GTGGACAAGAAGGCTGCTGGAGCTGGCAAGGTCACCAAGTCTGCCAGAAAGCTCAGAAG
GCTAAATGA
    
```

Clone variation with respect to NM\_001402.5

**5' Read Nucleotide Sequence:**

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>OriGene 5' read for NM_001402 unedited
NTTCGGAATTGAAACCGATTACTATAGGCGGACGCCCAATTCGCACGAGGGCCGCATAC
ACAGGTGTCGTGAAACTACCCCAAAGCCAAAAGGAAAGGAAAAGACTCATATCAACAT
TGTGTCATTGGACACGTAGATTCCGGCAAGTCCACCACTACTGGCCATCTGATCTATAA
ATGCGGTGGCATCGACAAAAGATTTTTTGTAAAAATTTGAGAAGGAGGCTGCTGAGATGG
GAAAGGGCTCCTTCAAGTATGCCTGGTCTTGGATAAACTGAAAGCTGAGCGTGAACGTG
GTATCACCATTGATATCTCCTTGTGAAATTTGAGACCAGCAAGTACTATGTGACTATCA
TTGATGCCCCAGGACACAGAGACTTTATCAAAAACATGATTACAGGGACATCTCAGGCTG
ACTGTGCTGTCTGATTGTTGCTGCTGGTGTGGTGAATTTGAAGCTGGTATCTCCAAGA
ATGGGCAGACCCGAGAGCATGCCCTTCTGGCTTACACACTGGGTGTGAAACAATAATTG
TCGGTGTAAACAAAATGGATTCCAAGTACAGCCACCCCTACAGCCAGAAGAGATATGAGGAAA
TTGTTAAGGAAGTCAGCACTTACATTAAGAAAATTTGGCTACAACCCCGACACAGTAGCAT
TTGTGCCAATTTCTGGTTGGAATGGTGACAACATGCTGGAGCCAAGTCTAACATGCCTT
GGTTCAAGGGATGGAAAGTCACCCGTAAGATGGCCATGCCAGTGGAAACACGCCTGCTT
GAGCTCTGGACTGCATCCTACCACCAACTCGTCCCACTGACAAGCCCTTGCCTGCCCTGCC
TCTCCAGGATGTCTACAAAATTTGGTGGCNATTGGTACTGTTTCTGTTGGNCCGAGTGAA
AACTGCNTGTCTTCAA
    
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<b>3' Read Nucleotide Sequence:</b>	>OriGene 3' read for NM_001402 unedited ATGGCAACTTTCCAGNCCAGGNANAGCACTGGGGAGGGGTCACAGGNATGCCACCCGGG ATCTGTTTCAGGAAACAGCTATGACCGCGGCCGCAATCTAGAGTCGAGTTTTTTTTTTTT TTTTTCTCATTTAACTTTTTTAAATGGGTCTCAAATTTCTGTGACAAATTTTTGGTCAAGT TGTTTCCATTA AAAAGTACTGATTTTAAAACTAATAACTTAAACTGCCACACGCAAAA AAGAAAACCAAAGTGGTCCACAAAACATTCTCCTTTCTCTGAAGGTTTTACGATGCAT TGTATCATTAAACCACTTTTACTACTAACTTAAATGGCCAATTGAAACAAACAGTTC TGAGACCGTTCTCCACCACTGATTAAGAGTGGGGTGGCAGGTATTAGGGATAAATTCA TTTAGCCTTCTGAGCTTTCTGGGCAGACTTGGTACCTTGCCAGCTCCAGCAGCCTTCTT GTCCACTGCTTTGATGACACCCACCGCAACTGTCTGTCTCATATCAGAACAGCAAAGCG ACCCAAAGGTGGATAGTCTGAGAAGCTCTCAACACACATGNGGCTTGCCAGGAACCATAT CAACAATGGCAGCATCACCAGACTTCAAGAATTTAGGGCCATCTTCCAGCTTTTTACCAG AACGGCGATCAATCTTTTCTTCCAGCTCAGCAAATTCATGCAATGTGAGCCGTGTGG CAATCCAATACAGGGCATAGCCGGCGCTTATTTGGCCTGGATGGTTCANGATAATCACC TGAGCAGTGAAGCAGCTGCTCCATTGGTGGGTCATTTTTGTCTGACCAGCACGTGCCAC GACGACATCCTTGACACACATTCTGACATGAGCCACATTGTCCCAGNA
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_001402
<b>Insert Size:</b>	1710 bp
<b>OTI Disclaimer:</b>	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<a href="#">NM_001402.4</a> , <a href="#">NP_001393.1</a>
<b>RefSeq Size:</b>	1837 bp
<b>RefSeq ORF:</b>	1389 bp
<b>Locus ID:</b>	1915
<b>UniProt ID:</b>	<a href="#">P68104</a>
<b>Cytogenetics:</b>	6q13
<b>Domains:</b>	GTP_EFTU, GTP_EFTU_D3, GTP_EFTU_D2
<b>Protein Families:</b>	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 1) is expressed in brain, placenta, lung, liver, kidney, and pancreas, and the other isoform (alpha 2) is expressed in brain, heart and skeletal muscle. This isoform is identified as an autoantigen in 66% of patients with Felty syndrome. This gene has been found to have multiple copies on many chromosomes, some of which, if not all, represent different pseudogenes. [provided by RefSeq, Jul 2008]