



# Recombinant Cat Elongation factor 1-alpha 1 (EEF1A1)

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| <b>Product Code</b>      | CSB-YP721103CA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Abbreviation</b>      | EEF1A1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Storage</b>           | The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself.<br>Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.                                                                                                                                                                                                                                                                               |
| <b>Uniprot No.</b>       | Q66RN5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Product Type</b>      | Recombinant Protein                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Immunogen Species</b> | Felis catus (Cat) (Felis silvestris catus)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Purity</b>            | ≥85% (SDS-PAGE)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Sequence</b>          | MGKEKTHINI VVIGHVDSGK STTTGHLIYK CGGIDKRTIE KFEKEAAEMG<br>KGSFKYAWVL DKLKAERERG ITIDISLWKF ETSKYYVTII DAPGHRDFIK<br>NMITGTSQAD CAVLIVAAGV GEFEAGISKN GQTREHALLA YTLGVKQLIV<br>GVNKMDSTEP PYSQKRYEEI VKEVSTYIKK IGYNPDTVAF VPISGWNGDN<br>MLEPSANMPW FKGWVKVTRKD GNASGTTLE ALDCILPPTR PTDKPLRLPL<br>QDVYKIGGIG TVPVGRVETG VLKPGMVVTF APVNVTTTEVK SVEMHHEALS<br>EALPGDNVGF NVKNVSVKDV RRGNVAGDSK NDPPMEAAGF TAQVIILNHP<br>GQISAGYAPV LDCHTAHIAC KFAELKEKID RRSKGKKLEDG PKFLKSGDAA<br>IVDMVPGKPM CVESFSDYPP LGRFAVRDMR QTVAVGVVKA VDKKAAGAGK<br>VTKSAQKAQK AK        |
| <b>Source</b>            | Yeast                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Target Names</b>      | EEF1A1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Protein Names</b>     | Recommended name: Elongation factor 1-alpha 1 Short name= EF-1-alpha-1<br>Alternative name(s): Elongation factor Tu Short name= EF-Tu Eukaryotic<br>elongation factor 1 A-1 Short name= eEF1A-1                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Expression Region</b> | 1-462                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Notes</b>             | Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Tag Info</b>          | Tag type will be determined during the manufacturing process.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Protein Length</b>    | full length protein                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Target Details</b>    | 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.

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**Reconstitution**

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

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**Shelf Life**

The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.