



# Recombinant Rat Elongation factor 1-alpha 1 (Eef1a1)

<b>Product Code</b>	CSB-YP007409RA
<b>Storage</b>	Store at -20°C, for extended storage, conserve at -20°C or -80°C.
<b>Uniprot No.</b>	P62630
<b>Product Type</b>	Recombinant Protein
<b>Immunogen Species</b>	Rattus norvegicus (Rat)
<b>Purity</b>	≥85% (SDS-PAGE)
<b>Sequence</b>	<p>MGKEKTHINI VVIGHVDSGK STTTGHLIYK CGGIDKRTIE KFEKEAAEMG  KGSFKYAWVL DKLKAERERG ITIDISLWKF ETSKYVYVTII DAPGHRDFIK  NMITGTSQAD CAVLIVAAGV GEFEAGISKN GQTREHALLA YTLGVKQLIV  GVNKMDSTEP PYSQKRYEEI VKEVSTYIKK IGYNPDTVAF VPISGWNGDN  MLEPSANMPW FKGWKVTRKD GSASGTTLE ALDCILPPTR PTDKPLRLPL  QDVYKIGGIG TVPVGRVETG VLKPGMVVTF APVNVTTVEVK SVEMHHEALS  EALPGDNVGF NVKNVSVKDV RRGNVAGDSK NDPPMEAAGF TAQVIILNHP  GQISAGYAPV LDCHTAHIAC KFAELKEKID RRSKGLLEDG PKFLKSGDAA  IVDMVPGKPM CVESFSDYPP LGRFAVRDMR QTVAVGVIIA VDKKAAGAGK  VTKSAQKAQK AK</p>
<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 Alternative name(s): Elongation factor Tu Short name= EF-Tu Eukaryotic 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.
<b>Reconstitution</b>	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.