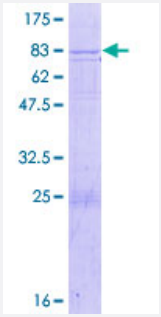
Full-Length

PEO1 (Human) Recombinant Protein (P01)

Catalog # H00056652-P01 Size 25 ug, 10 ug

Applications



Specification

Product Description	Human PEO1 full-length ORF (AAH33762.1, 1 a.a. - 506 a.a.) recombinant protein with GST-tag at N-terminal.
Sequence	MFGLTKVTDDTLKRFSVRYLRPARSLVFPWFSPGGSGLRGLKLLEAKCQGDGVSYEETTIPRPSA YHNLFGLPLISRRDAEVVLTSRELDSLALNQSTGLPTLTLPRGTTCLPPALLPYLEQFRRIVFWLGD DLRSWEAAKLFARKLNPKRCFLVRPGDQQPRPLEALNGGFNLSRILRTALPAWHKSIVSFRQLRE EVLGELSNVEQAAGLRWSRFPDLNRILKGHRKGELTVFTGPTGSGKTTFISEYALDLCSQGVNTL WGSFEISNVRLARVMLTQFAEGRLEDQLDKYDHWADRFEDLPLYFMTFHGQQSIRTVIDTMQHAV YVYDICHVIIDNLQFMMGHEQLSTDRIAAQDYIIGVFRKFATDNNCHVTLVIHPRKEDDDKELQTASIF GSAKASQEADNVLILQDRKLVTGPGKRYLQVSKNRFDGDVGVFPLEFNKNSLTFSIPPKNKARLK KIKDDTGPVAKKPSSGKKGATTQNSEICSGQAPTPDQPDTSKRSK
Host	Wheat Germ (in vitro)
Theoretical MW (kDa)	83.4
Interspecies Antigen Sequence	Mouse (89); Rat (88)
Preparation Method	*in vitro* wheat germ expression system
Purification	Glutathione Sepharose 4 Fast Flow
Quality Control Testing	12.5% SDS-PAGE Stained with Coomassie Blue.

Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
Storage Instruction	Store at -80°C. Aliquot to avoid repeated freezing and thawing.
Note	Best use within three months from the date of receipt of this protein.

Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

Gene Info — C10orf2

Entrez GeneID	56652
GeneBank Accession#	BC033762.1
Protein Accession#	AAH33762.1
Gene Name	C10orf2
Gene Alias	ATXN8, FLJ21832, IOSCA, PEO, PEO1, PEOA3, SANDO, SCA8, TWINL
Gene Description	chromosome 10 open reading frame 2
Omim ID	606075 607459 609286
Gene Ontology	Hyperlink
Gene Summary	This gene encodes a hexameric DNA helicase which unwinds short stretches of double-stranded DNA in the 5' to 3' direction and, along with mitochondrial single-stranded DNA binding protein and mtDNA polymerase gamma, is thought to play a key role in mtDNA replication. The protein localizes to the mitochondrial matrix and mitochondrial nucleoids. Mutations in this gene cause infantile onset spinocerebellar ataxia (IOSCA) and progressive external ophthalmoplegia (PEO) and are also associated with several mitochondrial depletion syndromes. Alternative splicing results in multiple transcript variants encoding distinct isoforms
Other Designations	OTTHUMP00000020296|ataxin 8|gp4-like protein with intramitochondrial nucleoid localization|twinkle

Disease

- Abnormalities
- Alzheimer Disease
- Diabetes Mellitus
- Diabetic Neuropathies
- Genetic Predisposition to Disease
- Ophthalmoplegia
- Parkinsonian Disorders