Protein Bunched, Class 1/Class 3/D/E Isoforms (bun) Drosophila Melanogaster Recombinant Protein

PRODUCT OVERVIEW

Product Name	Protein bunched, class 1/class 3/D/E isoforms (bun), Recombinant Protein
Full Product Name	Recombinant Drosophila melanogaster Protein bunched, class 1/class 3/D/E isoforms (bun)
Product Gene Name	bun recombinant protein
Product Synonym Gene Name	bun
Sequence	MKTETGSNNN NTTVVNMDFD MYPSISGKQQ DPVREVVMKY IDYFLPDASG TSAVAIDNKI EQAMDLVKSH LMIAVREEVE VLKERISELM DKINKLELEN SILKSNIPQE TLQQLQLQLQ LAAPPATPAI QAAPAVQSVV APAAAGQAVQ QQAAGAVAVT GVATSPASAV VPTSIPNGSA ENGSSAVESA AVSVEQQVQQ VTSAAAAAAS VVTANGPMS
Host	E Coli or Yeast or Baculovirus or Mammalian Cell
Form/Format	Lyophilized or liquid (Format to be determined during the manufacturing process)
Purity/Purification	Greater or equal to 85% purity as determined by SDS-PAGE. (lot specific)
Preparation and Storage	Store at -20 degrees C. For long-term storage, store at -20 degrees C or -80 degrees C. Store working aliquots at 4 degrees C for up to one week. Repeated freezing and thawing is not recommended.
Molecular Weight	124,802 Da
Sequence Positions	1-219, Full length protein
Tag Information	This protein contains an N-terminal tag and may also contain a C-terminal tag. Tag types are determined by various factors including tag-protein stability, please inquire for tag information.
Sterility	Sterile filter available upon request.
Endotoxin	Low endotoxin available upon request.
3D Structure	ModBase 3D Structure for Q24522
Species	Drosophila melanogaster (Fruit fly)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for bun recombinant protein	MBS1322850 is a recombinant protein targeting bun. Also known as Recombinant Drosophila melanogaster Protein bunched, class 1/class 3/D/E isoforms (bun). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of bun recombinant protein vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for bun. It may not necessarily be applicable to this product.

NCBI GI #	116007324
NCBI GeneID	34665
NCBI Accession #	NP_001036358.1
UniProt Primary Accession #	Q24522

UniProt Secondary Accession #	O02431; Q0E8Q8; Q0E8Q9; Q95T76; E1JH96; E1JHG7
UniProt Related Accession #	Q24522; Q24523
GenBank Nucleotide #	NM_001042893.2
NCBI Official Full Name	bunched, isoform E
NCBI Official Synonym Full Names	bunched
NCBI Official Symbol	bun
NCBI Official Synonym Symbols	1550; bnc; Bun; BunA; CG31857; CG42281; CG5461; DmelCG42281; Dm_2L:60722; EP(2)0488; l(2)00255; l(2)02687; l(2)05479; l(2)06475; l(2)k02903; l(2)rl043; shs; TSC-22; Tsc22
UniProt Protein Name	Protein bunched, class 1/class 3/D/E isoforms
UniProt Synonym Protein Names	Protein shortsighted
Protein Family	Protein bunched
UniProt Gene Name	bun
UniProt Synonym Gene Names	shs
NCBI Protein Information	CG42281 gene product from transcript CG42281-RF
UniProt Comments for bun	Probable transcription factor required for peripheral nervous system morphogenesis, eye development and oogenesis. May be required for the transmission of the dpp signal and for a morphogenetic movement of the medulla in the brain that reorients the second optic lobe relative to the first. Plays a role in determining proper dorsal cell fates leading to the formation of the dorsal appendages.
Research Articles on bun	**1.** The data suggest the model that Bunched and Madm functionally interact with the TOR pathway in the cytoplasm to regulate the growth and subsequent division of intestinal stem cells.
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