POU Domain, Class 4, Transcription Factor 2 (POU4F2) Mouse Recombinant Protein

PRODUCT OVERVIEW

Product Name	POU domain, class 4, transcription factor 2 (Pou4f2), Recombinant Protein
Full Product Name	Recombinant Mouse POU domain, class 4, transcription factor 2 (Pou4f2)
Product Gene Name	Pou4f2 recombinant protein
Product Synonym Gene Name	Pou4f2
Sequence	MMMMSLNSKQ AFSMPHAGSL HVEPKYSALH SASPGSSAPA APSASSPSSS SNAGGGGGGG GGGGGGGRSS SSSSSGSGGS GGGGGSEAMR RACLPTPPSN IFGGLDESLL ARAEALAAVD IVSQSKSHHH HPPHHSPFKP DATYHTMNTI PCTSAASSSS VPISHPSALA GTHHHHHHHH HHHHQPHQAL EGELLEHLSP GLALGAMAGP DGTVVSTPAH APHMATMNPM HQAALSMAHA HGLPSHMGCM SDVDADPRDL EAFAERFKQR RIKLGVTQAD VGSALANLKI PGVGSLSQST ICRFESLTLS HNNMIALKPI LQAWLEEAEK SHREKLTKPE LFNGAEKKRK RTSIAAPEKR SLEAYFAIQP RPSSEKIAAI AEKLDLKKNV VRVWFCNQRQ KQKRMKYSAG I
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	35,377 Da
Sequence Positions	1-411, 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 Q63934
Species	Mouse
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for Pou4f2 recombinant protein	MBS1331924 is a recombinant protein targeting Pou4f2. Also known as Recombinant Mouse POU domain, class 4, transcription factor 2 (Pou4f2). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of Pou4f2 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 Pou4f2. It may not necessarily be applicable to this product.

NCBI GI #	47059067
NCBI GeneID	18997
NCBI Accession #	NP_620394.2
UniProt Primary Accession #	Q63934

UniProt Secondary Accession #	Q63954
UniProt Related Accession #	Q63934
GenBank Nucleotide #	NM_138944.2
NCBI Official Full Name	POU domain, class 4, transcription factor 2
NCBI Official Synonym Full Names	POU domain, class 4, transcription factor 2
NCBI Official Symbol	Pou4f2
NCBI Official Synonym Symbols	Brn3b; Brn-3b; Brn-3.2; mBrn3-3R; Pou4f-rs1
UniProt Protein Name	POU domain, class 4, transcription factor 2
UniProt Synonym Protein Names	Brain-specific homeobox/POU domain protein 3B; Brain-3B; Brn-3B; Brn-3.2
Protein Family	POU domain, class 4, transcription factor
UniProt Gene Name	Pou4f2
UniProt Synonym Gene Names	Brain-3B; Brn-3B
NCBI Protein Information	POU domain, class 4, transcription factor 2
UniProt Comments for Pou4f2	DNA-binding transcriptional regulator and coregulator that recognizes and binds to the consensus octamer binding site 5'-AT[A/T]A[T/A]T[A/T]A-3' in promoter of target genes (PubMed:7904822, PubMed:8290353, PubMed:7935408, PubMed:9111308, PubMed:10414983, PubMed:16152597, PubMed:17145718, PubMed:17668438, PubMed:21875655, PubMed:24643061). Plays a fundamental role in the gene regulatory network essential for retinal ganglion cell (RGC) differentiation (PubMed:8632990, PubMed:24643061, PubMed:25775587). Cooperates with the transcription factor ISL1 to achieve RGC fate specification in the developing retina (PubMed:25775587). Plays also a role in RGC axon formation and guidance by regulating gene expression of specific target genes (PubMed:8995448, PubMed:9261145, PubMed:8972215, PubMed:10357904, PubMed:11163266). Plays a role in TNFSF11-mediated terminal osteoclast differentiation (PubMed:17668438). Binds chromatin at promoter region of target genes (PubMed:17145718, PubMed:24643061).
Research Articles on Pou4f2	**1.** Dlx1 and Dlx2 function both downstream of ATOH7 and in parallel, but cooperative, pathways that involve regulation of Brn3b expression to determine retinal ganglion cell fate.
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