

Datasheet for ABIN7563115
POU3F2 Protein (AA 1-445) (His tag)



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Overview

Quantity:	1 mg
Target:	POU3F2
Protein Characteristics:	AA 1-445
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This POU3F2 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Purpose:	Custom-made recombinat Pou3f2 Protein expressed in mammalien cells.
Sequence:	<p>MATAASNHYS LLTSSASIVH AEPPGGMQQG AGGYREAQSL VQGDYDALQS NGHPLSHAHQ WITALSHGGG GGGGGGGGGG GGGGGGGGDG SPWSTSPLGQ PDIKPSVVVQ QGGRGDELHG PGALQQQHQQ QQQQQQQQQQ QQQQQQQQQQ QRPPHLVHHA ANHHPGPGAW RSAAAAAHL P PSMGASNGGL LYSQPSFTVN GMLGAGGQPA GLHHHGLRDA HDEPHHADHH PHPHSHPHQQ PPPPPPQGP PGHPGAHHP HSDPTPTSD DLEQFAKQFK QRRIKLGFTQ ADVGLALGTL YGNVFSQTTI CRFEALQLSF KNMCKLKPLL NKWLEEADSS SGSPTSIDKI AAQGRKRKKR TSIEVSVKGA LESHFLKCPK PSAQEITSLA DSLQLEKEVV RVWFCNRRQK EKRMTPPGGT LPGAEDVYGG SRDTPPHHG V QTPVQ Sequence without tag. The proposed Purification-Tag is based on experiences with the expression system, a different complexity of the protein could make another tag necessary. In case you have a special request, please contact us.</p>
Characteristics:	Key Benefits:

Product Details

- Made to order protein - from design to production - by highly experienced protein experts.
- Protein expressed in mammalian cells and purified in one-step affinity chromatography
- The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.
- State-of-the-art algorithm used for plasmid design (Gene synthesis).

This protein is a made-to-order protein and will be made for the first time for your order. Our experts in the lab try to ensure that you receive soluble protein.

If you are not interested in a full length protein, please contact us for individual protein fragments.

The big advantage of ordering our made-to-order proteins in comparison to ordering custom made proteins from other companies is that there is no financial obligation in case the protein cannot be expressed or purified.

Purity: > 90 % as determined by Bis-Tris Page, Western Blot

Grade: custom-made

Target Details

Target: POU3F2

Alternative Name: Pou3f2 ([POU3F2 Products](#))

Background: POU domain, class 3, transcription factor 2 (Brain-specific homeobox/POU domain protein 2) (Brain-2) (Brn-2) (Nervous system-specific octamer-binding transcription factor N-Oct-3) (Octamer-binding protein 7) (Oct-7) (Octamer-binding transcription factor 7) (OTF-7),FUNCTION: Transcription factor that plays a key role in neuronal differentiation (PubMed:24243019). Binds preferentially to the recognition sequence which consists of two distinct half-sites, ('GCAT') and ('TAAT'), separated by a non-conserved spacer region of 0, 2, or 3 nucleotides (By similarity). Acts as a transcriptional activator when binding cooperatively with SOX4, SOX11, or SOX12 to gene promoters (PubMed:18505825, PubMed:18403418). The combination of three transcription factors, ASCL1, POU3F2/BRN2 and MYT1L, is sufficient to reprogram fibroblasts and other somatic cells into induced neuronal (iN) cells in vitro (PubMed:20107439, PubMed:24243019, PubMed:27281220). Acts downstream of ASCL1, accessing chromatin that has been opened by ASCL1, and promotes transcription of neuronal genes (PubMed:24243019). {ECO:0000250|UniProtKB:P56222, ECO:0000269|PubMed:18403418, ECO:0000269|PubMed:18505825,

Target Details

ECO:0000269|PubMed:20107439, ECO:0000269|PubMed:24243019,
ECO:0000269|PubMed:27281220}.

Molecular Weight: 47.1 kDa

UniProt: [P31360](#)

Application Details

Application Notes: In addition to the applications listed above we expect the protein to work for functional studies as well. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.

Restrictions: For Research Use only

Handling

Format: Liquid

Buffer: The buffer composition is at the discretion of the manufacturer.

Handling Advice: Avoid repeated freeze-thaw cycles.

Storage: -80 °C

Storage Comment: Store at -80°C.

Expiry Date: 12 months