

Datasheet for ABIN7560661
OOEP Protein (AA 1-164) (His tag)



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Overview

Quantity:	1 mg
Target:	OOEP
Protein Characteristics:	AA 1-164
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This OOEP protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant Ooep Protein expressed in mammalian cells.
Sequence:	MASHTADADA KPDSQKLL NVLPVSLRLR TRPWWFPIQE VSNPLVLYME AWWAERVIGT DQAEISEIEW MCQALLTVDS VNSGNLAEIT IFGQPSAQTR MKNILLNMAA WHKENELQRA VKVKEVEEFL KIRASSILSK LSKKGLKLAG FPLPLEGRET QMES 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.
Specificity:	If you are looking for a specific domain and are interested in a partial protein or a different isoform, please contact us regarding an individual offer.
Characteristics:	Key Benefits: <ul style="list-style-type: none">• 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

Product Details

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, anti-tag ELISA, Western Blot and analytical SEC (HPLC)
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Grade:	custom-made
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Target Details

Target:	OOEP
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Alternative Name:	Ooep (OOEP Products)
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Background:	<p>Oocyte-expressed protein homolog (Factor located in oocytes permitting embryonic development) (Flop) (Oocyte- and embryo-specific protein 19) (mOEP19) (STAT3 downstream gene and differentiation regulator),FUNCTION: As part of the OOEP-KHDC3 scaffold, recruits BLM and TRIM25 to DNA replication forks, thereby promoting the ubiquitination of BLM by TRIM25, enhancing BLM retainment at replication forks and therefore promoting stalled replication fork restart (PubMed:29125140). Positively regulates the homologous recombination-mediated DNA double-strand break (DSB) repair pathway by regulating ATM activation and RAD51 recruitment to DSBs in oocytes (PubMed:29955025). Thereby contributes to oocyte survival and the resumption and completion of meiosis (PubMed:29955025). As a member of the subcortical maternal complex (SCMC), plays an essential role for zygotes to progress beyond the first embryonic cell divisions via regulation of actin dynamics (PubMed:18804437, PubMed:25208553). Required for the formation of F-actin cytoplasmic lattices in oocytes which in turn are responsible for symmetric division of zygotes via the regulation of mitotic spindle formation and positioning (PubMed:25208553).</p> <p>{ECO:0000269 PubMed:18804437, ECO:0000269 PubMed:25208553, ECO:0000269 PubMed:29125140, ECO:0000269 PubMed:29955025}.</p>
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Target Details

Molecular Weight: 18.5 kDa

UniProt: [Q9CWE6](#)

Application Details

Application Notes: We expect the protein to work for functional studies. 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