

Datasheet for ABIN7559531

## Chromosome 6 Open Reading Frame 134 (C6orf134) (AA 1-421) protein (His tag)



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### Overview

Quantity:	1 mg
Target:	Chromosome 6 Open Reading Frame 134 (C6orf134)
Protein Characteristics:	AA 1-421
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	His tag
Application:	Western Blotting (WB), SDS-PAGE (SDS)

### Product Details

Purpose:	Custom-made recombinat Atat1 Protein expressed in mammalien cells.
Sequence:	<p>MEFPFDVDAL FPERITVLDQ HLRPPARRPG TTTPARVDLQ QQIMTIVDEL GKASAKAQHL PAPITSALRM QSNRHVIYIL KDTSARPAGK GAIIGFLKVG YKKLFVLLDDR EAHNEVEPLC ILDFYIHESV QRHGHGRELF QHMLQKERVE PHQLAIDRPS PKLLKFLNKH YNLETTVPQV NNFVIFEGFF AHQHRPPTSS LRATRHSRAA VADPIPAAPA RKLPPKRAEG DIKPYSSSDR EFLKVAVEPP WPLNRAPRRA TPPAHPPPRS SSLGNPDRG PLRPFVPEQE LLRSLRLCPP HPTARLLLAT DPGGSPAQR RTRGTPWGLV AQSCHYSRHG GFNTSFLGTG NQERKQGEQE AEDRSASEDR VLLLDGSGEE PTQTGAPRAQ APPPQSWTVG GDIMNARVIR NLQERRSTRP W</p> <p><b>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.</b></p>
Characteristics:	Key Benefits:

## Product Details

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- 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.

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

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Grade: custom-made

## Target Details

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Target: Chromosome 6 Open Reading Frame 134 (C6orf134)

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Alternative Name: [Atat1 \(C6orf134 Products\)](#)

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Background: Alpha-tubulin N-acetyltransferase 1 (Alpha-TAT) (Alpha-TAT1) (TAT) (EC 2.3.1.108) (Acetyltransferase mec-17 homolog),FUNCTION: Specifically acetylates 'Lys-40' in alpha-tubulin on the luminal side of microtubules. Promotes microtubule destabilization and accelerates microtubule dynamics, this activity may be independent of acetylation activity. Acetylates alpha-tubulin with a slow enzymatic rate, due to a catalytic site that is not optimized for acetyl transfer. Enters the microtubule through each end and diffuses quickly throughout the lumen of microtubules. Acetylates only long/old microtubules because of its slow acetylation rate since it does not have time to act on dynamically unstable microtubules before the enzyme is released. Required for normal sperm flagellar function. Promotes directional cell locomotion and chemotaxis, through AP2A2-dependent acetylation of alpha-tubulin at clathrin-coated pits that are concentrated at the leading edge of migrating cells. May facilitate primary cilium assembly. {ECO:0000255|HAMAP-Rule:MF\_03130, ECO:0000269|PubMed:20829795, ECO:0000269|PubMed:23275437, ECO:0000269|PubMed:23720746, ECO:0000269|PubMed:23748901, ECO:0000269|PubMed:24097348}.

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## Target Details

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Molecular Weight: 47.2 kDa

UniProt: [Q8K341](#)

## Application Details

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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

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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