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Datasheet for ABIN7550016

**OR2AT4 Protein (AA 1-320) (His tag)**

## Overview

Quantity:	1 mg
Target:	OR2AT4
Protein Characteristics:	AA 1-320
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This OR2AT4 protein is labelled with His tag.

## Product Details

Purpose:	Custom-made recombinant OR2AT4 Protein expressed in mammalian cells.
Sequence:	MDATACNESV DGSPVFYLLG IPSLPETFFL PVFFIFLLFY LLILMGNALI LVAVVAEPSL HKPMYFFLIN LSTLDILFTT TTVPKMLSLF LLGDRFLSFS SCLLQMYLFQ SFTCSEAFIL VVMAYDRYVA ICHPLHYPVL MNPQTNATLA ASAWLTALLL PIPAVVRTSQ MAYNSIAYIY HCFCDHLAVV QASCSDTTPQ TLMGFCIAMV VSFLPLLLVL LSYVHILASV LRISSLEGRA KAFSTCSSHL LVVGTYYSSI AIAYVAYRAD LPLDFHIMGN VVYAILTPIL NPLIYTLRNR DVKAAITKIM SQDPGCDSR <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>
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:

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

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## Target Details

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Target:	OR2AT4
Alternative Name:	OR2AT4 ( <a href="#">OR2AT4 Products</a> )
Background:	<p>Olfactory receptor 2AT4 (Olfactory receptor OR11-265),FUNCTION: Olfactory receptor (PubMed:24999593, PubMed:30228264). Activated by the synthetic sandalwood odorant sandalore (PubMed:24999593, PubMed:30228264). Endogenous ligand is unknown (Probable). The activity of this receptor is probably mediated by G proteins which induce elevation of intracellular Ca(2+), a cAMP-dependent pathway and phosphorylation of MAPK1/ERK2, MAPK3/ERK1 and p38 MAPKs (PubMed:24999593, PubMed:30228264). Activation of OR2AT4 induces proliferation, migration, and re-epithelialization during wound-healing processes of keratinocytes (PubMed:24999593). Stimulation of OR2AT4 by sandalore promotes hair growth by decreasing apoptosis and increasing production of the anagen-prolonging growth factor IGF1 as well as other pathways involving various kinases (PubMed:30228264). {ECO:0000269 PubMed:24999593, ECO:0000269 PubMed:30228264, ECO:0000305}.</p>
Molecular Weight:	35.5 kDa
UniProt:	<a href="#">A6NND4</a>

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## Application Details

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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.

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Restrictions: For Research Use only

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## Handling

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Format: Liquid

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

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Handling Advice: Avoid repeated freeze-thaw cycles.

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Storage: -80 °C

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Storage Comment: Store at -80°C.

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Expiry Date: 12 months

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