

## Datasheet for ABIN7550414

### PSGR Protein (AA 1-320) (His tag)



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#### Overview

Quantity:	1 mg
Target:	PSGR (OR51E2)
Protein Characteristics:	AA 1-320
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This PSGR protein is labelled with His tag.

#### Product Details

Purpose:	Custom-made recombinant OR51E2 Protein expressed in mammalian cells.
Sequence:	<p>MSSCNFTHAT FVLIGIPGLE KAHFWVGFPL LSMYVVAMFG NCIVVFIVRT ERS LHAPMYL            FLCMLAAIDL ALSTSTMPKI LALFWFDSRE ISFEACLTQM FFIHALSAIE STILLAMAFD            RYVAICHPLR HAAVLNNTVT AQIGIVAVVR GSLFFFPLPL LIKRLAFCHS NVLSHSYCVH            QDVMKLAYAD TLPNVVYGLT AILLVMGVDV MFISLSYFLI IRTVLQLPSK SERAKAFGTC            VSHIGVVLA F YVPLIGLSV V HRFGNLSLHPI VRVVMGDIYL LLPPVINPII YGAKTKQIRT            RVLAMFKISC DKDLQAVGGK <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>
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.

Purity:	> 90 % as determined by Bis-Tris PAGE, anti-tag ELISA, Western Blot and analytical SEC (HPLC)
Grade:	custom-made

## Target Details

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Target:	PSGR (OR51E2)
Alternative Name:	OR51E2 ( <a href="#">OR51E2 Products</a> )
Background:	<p>Olfactory receptor 51E2 (HPRAJ) (Olfactory receptor OR11-16) (Prostate-specific G-protein coupled receptor),FUNCTION: Olfactory receptor (PubMed:29249973, PubMed:27226631). Activated by the odorant, beta-ionone, a synthetic terpenoid (PubMed:29249973, PubMed:27226631, PubMed:19389702). The activity of this receptor is probably mediated by G-proteins leading to the elevation of intracellular Ca(2+), cAMP and activation of the protein kinases PKA and MAPK3/MAPK1 (PubMed:27226631, PubMed:29249973). Stimulation of OR51E2 by beta-ionone affects melanocyte proliferation, differentiation, and melanogenesis (PubMed:27226631). Activation of OR51E2 by beta-ionone increases proliferation and migration of primary retinal pigment epithelial (RPE) cells (PubMed:29249973). Activated also by the short-chain fatty acids (SCFA) acetate and propionate. In response to SCFA, may positively regulate renin secretion and increase blood pressure (PubMed:23401498). May also be activated by steroid hormones and regulate cell proliferation (PubMed:19389702). Activated by L-lactate in glomus cells (By similarity). {ECO:0000250 UniProtKB:Q8VBV9, ECO:0000269 PubMed:19389702, ECO:0000269 PubMed:23401498,</p>

## Target Details

ECO:0000269|PubMed:27226631, ECO:0000269|PubMed:29249973}.

Molecular Weight: 35.5 kDa

UniProt: [Q9H255](#)

## 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