

Product datasheet for **RG236729**

OBP2A (NM_001293189) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	OBP2A (NM_001293189) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	OBP2A
Synonyms:	hOBPIIa; LCN13; OBP; OBP2C; OBPIIa
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG236729 representing NM_001293189. Blue=ORF Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGCATCGCC
ATGAAGACCCTGTTCTGGGTGTCACGCTCGGCCCTGGCCGCTGCCCTGTCTTCACCCTGGAGGAGGAG
GATATCACAGGGACCTGGTACGTGAAGGCCATGGTGGTCGATAAGGACTTCCGGAGGACAGGAGGCC
AGGAAGGTGTCCCAGTGAAGGTGACAGCCCTGGGCGGTGGAACTTGAAGCCACGTTACCTTCATG
AGGGAGGATCGGTGCATCCAGAAGAAAATCCTGATCGGAAGACGGAGGAGCCTGGCAAATTCAGCGCC
TATGGGGCAGGAAGCTCATATACTGCAGGAGCTGCCCGGACGGACGACTACGTCTTTACTGCAAA
GACCAGCGCCGTGGGGCCTGCGCTACATGGGAAAGCTTGTGGCATCTGCTCCCTGCAGGGCCGTGCCG
CTGTCCACCTTGGCTCACCTGGCCACCTCACCTGCAGGTAGGAATCCTAATACCAACCTGGAGGCC
TGAAGAATTTAAGAAATTTGGTGCAGCACAAGGACTCTCGGAGGAGGACATTTTCATGCCCTGCAGA
CGGAAGTGTGCTTCTCGAACACTAGGCAGCCCCGGGTCTGCACCTCCAGAGCCCACCCTACCACCAG
ACACAGAGCCCGACCTGGACCTACCTCCAGCCATGACCTTCCCTGCTCCACCCACC
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
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Protein Sequence: >Peptide sequence encoded by RG236729
 Blue=ORF Red=Cloning site Green=Tag(s)

MKTLFLGVTLGLAAALSFTLEEDITGTWYVKAMVVDKDFPEDRRPRKVSVPKVTALGGGNLEATFTFM
 REDRCIQKKILMRKTEEPGKFSAYGGRKLIYLQELPGTDDYVFYCKDQRRGLRYMGKLVASAPCRAVP
 LSPPWLWPPHLQVQILIPTWRPWKNLRNWCSTRDSRRRTFSCPCRREAAF SNTRQPPGLHLQSPPYHQ
 TQSPDHLDLPSHDP SLLPPT
 TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGEGTPEQGRMTNKMKSTKGALTFSPYLLSHV
 MGYGFYHFGTYP SGYENPFLHAINNGGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPEP
 SVIFTDKIIRS NATVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVD SHMHFKSAIHPSILQNGGPMFA
 FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001293189

ORF Size: 684 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

RefSeq: [NM_001293189.2](#)

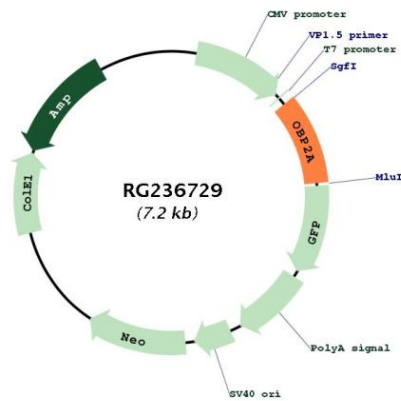
RefSeq Size: 754 bp

RefSeq ORF: 687 bp

Locus ID: 29991
UniProt ID: [Q9NY56](#)
Cytogenetics: 9q34.3
Protein Families: Secreted Protein
MW: 26.4 kDa

Gene Summary: This gene encodes a small extracellular protein belonging to the lipocalin superfamily. The protein is thought to transport small, hydrophobic, volatile molecules or odorants through the nasal mucus to olfactory receptors, and may also function as a scavenger of highly concentrated or toxic odors. The protein is expressed as a monomer in the nasal mucus, and can bind diverse types of odorants with a higher affinity for aldehydes and fatty acids. This gene and a highly similar family member are located in a cluster of lipocalin genes on chromosome 9. Alternatively spliced transcript variants have been described, but their biological validity has not been determined. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG236729