

Product datasheet for **SC333949**

OBP2A (NM_001293193) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	OBP2A (NM_001293193) Human Untagged Clone
Tag:	Tag Free
Symbol:	OBP2A
Synonyms:	hOBPIIa; LCN13; OBP; OBP2C; OBPIIa
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC333949 representing NM_001293193. Blue=Insert sequence Red=Cloning site Green=Tag(s)

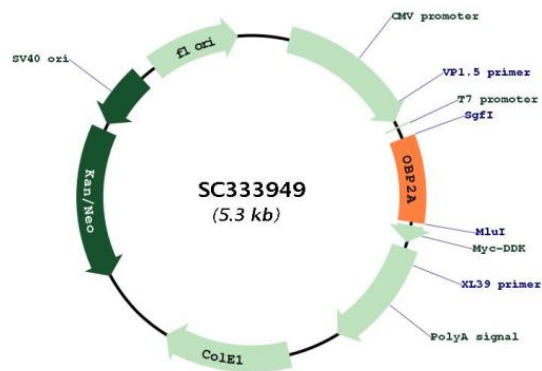
```
GCTCGTTTAGTGAACCGTCAGAATTTGTAAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGAAGACCCTGTTCTGGGTGTCACGCTCGGCCCTGGCCGCTGCCCTGTCCTTCACCCTGGAGGAGGAG
GATGAGGGAGGATCGGTGCATCCAGAAGAAAATCCTGATGCGGAAGACGGAGGAGCCTGGCAAATTCAG
CGCCTATGGGGGCAGGAAGCTCATATACCTGCAGGAGCTGCCGGGACGGACGACTACGTCTTTACTG
CAAAGACCAGCGCCGTGGGGCCTGCGCTACATGGGAAAGCTTGTGGCATCTGCTCCCTGCAGGGCCGT
GCCGCTGTCCCACCTTGCTCACCTGGCCACCTCACCTGCAGGTAGGAATCCTAATACCAACCTGGAG
GCCCTGGAAGAATTTAAGAAATTGGTGCAGCACAAGGACTCTCGGAGGAGGACATTTTCATGCCCTG
CAGACGGGAAGCTGCGTTCTCGAACACTAG
ACGCGTACGCGGCCGCTCGAGCAGAAACTATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
```

Restriction Sites: Sgfl-Mlul



[View online »](#)

Plasmid Map:



ACCN: NM_001293193

Insert Size: 444 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

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).

Reconstitution Method:

1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.

RefSeq: [NM_001293193.1](#)

RefSeq Size: 620 bp

RefSeq ORF: 444 bp

Locus ID: 29991

UniProt ID: [Q9NY56](#)

Cytogenetics: 9q34.3

Protein Families: Secreted Protein

MW: 15.7 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]
Transcript Variant: This variant (delta, PMID:10607840) has multiple differences in the coding region, one of which results in an internal translational frameshift, compared to variant gamma. The resulting protein (isoform delta) has a distinct internal coding region but shares the same N- and C-terminus as isoform gamma.