

## Product datasheet for **RG210114**

### **OBP2A (NM\_014582) Human Tagged ORF Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** OBP2A (NM\_014582) 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:** >RG210114 representing NM\_014582  
**Red**=Cloning site **Blue**=ORF **Green**=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGAAGACCCGTTCCTGGGTGTCACGCTCGGCCCTGGCCGCTGCCCTGTCCTTCACCCTGGAGGAGGAGG  
ATATCACAGGGACCTGGTACGTGAAGGCCATGGTGGTCGATAAAGACTTCCGGAGGACAGGAGGCCAG  
GAAGGTGTCCCCAGTGAAGGTGACAGCCCTGGCGGTGGAACTTGAAGCCACGTTACCTTCATGAGG  
GAGGATCGGTGCATCCAGAAGAAAATCCTGATGCGGAAGACGGAGGAGCCTGGCAAATTCAGCGCCTATG  
GGGCAGGAAGCTCATATACCTGCAGGAGCTGCCCGGACGGACGACTACGTCTTTACTGCAAAGACCA  
GCGCCGTGGGGCCTGCGCTACATGGGAAAGCTTGTGGTAGGAATCCTAATACCAACCTGGAGGCCCTG  
GAAGAATTTAAGAAATGGTGCAGCACAAAGGACTCTCGGAGGAGGACATTTTCATGCCCTGCAGACGG  
GAAGCTGCGTTCTCGAACAC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >RG210114 representing NM\_014582  
**Red**=Cloning site **Green**=Tags(s)

MKTLFLGVTLGLAAALSFTLEEEDITGTWYVKAMVVDKDFPEDRRPRKVS PVKVTALGGNLEATFTFMR  
EDRCIQKKILMRKTEEPGKFSAYGGRKLIYLQELPGTDDYVFYCKDQRRGGLRYMGKLVGRNPNTNLEAL  
EEFKKLQHKGLSEEDIFMPLQTGSCVLEH

**TRTRPLE** - GFP Tag - V

**Restriction Sites:** Sgfl-MluI



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**Cloning Scheme:**


**ACCN:** NM\_014582

**ORF Size:** 510 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).

**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\\_014582.3](#)

**RefSeq Size:** 689 bp

**RefSeq ORF:** 513 bp

**Locus ID:** 29991

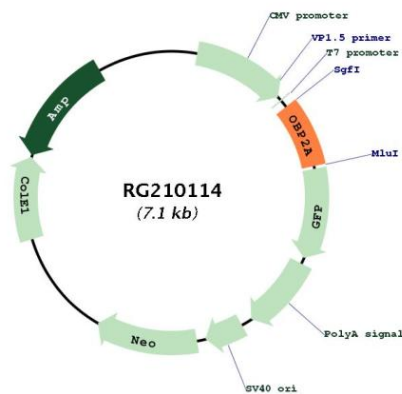
**UniProt ID:** [Q9NY56](#)

**Cytogenetics:** 9q34.3

**Protein Families:** Secreted Protein

**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 RG210114