

## Product datasheet for RC204752

### PSGR (OR51E2) (NM\_030774) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	PSGR (OR51E2) (NM_030774) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	PSGR
Synonyms:	HPRAJ; OR51E3P; OR52A2; PSGR
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC204752 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGAGTTCCTGCAACTTCACACATGCCACCTTTGTGCTTATTGGTATCCCAGGATTAGAGAAAGCCATT  
TCTGGGTTGGCTTCCCCCTCCTTCCATGTATGTAGTGGCAATGTTTGGAACTGCATCGTGGTCTTCAT  
CGTAAGGACGGAACGCAGCCTGCACGCTCCGATGTACCTTTTCTGTCATGCTGCAGCCATTGACCTG  
GCCTTATCCACATCCACCATGCCTAAGATCCTTGCCTTTTCTGGTTTGATTCCCAGAGATTAGCTTTG  
AGGCTGTCTTACCAGATGTTCTTTATTCATGCCCTCTCAGCCATTGAATCCACCATCCTGCTGGCCAT  
GGCCTTTGACCGTTATGTGGCCATCTGCCACCCACTGCGCCATGCTGCAGTGCTCAACAATACAGTAACA  
GCCAGATTGGCATCGTGGCTGTGGTCCGCGGATCCCTCTTTTTTCCCACTGCCTCTGCTGATCAAGC  
GGCTGGCCTTCTGCCACTCCAATGTCTCTCGCACTCCTATTGTGTCCACCAGGATGTAATGAAGTTGGC  
CTATGCAGACACTTTGCCAATGTGGTATATGGTCTTACTGCCATTCTGCTGGTCATGGGCGTGGACGTA  
ATGTTTCATCTCCTTGTCTATTTTCTGATAATACGAACGGTCTGCAACTGCCTTCCAAGTCAGAGCGGG  
CCAAGGCCTTTGGAACCTGTGTGCACACATTGGTGTGGTACTCGCCTTCTATGTGCCACTTATTGGCCT  
CTCAGTTGTACACCGCTTTGAAACAGCCTTATCCCATTGTGCGTGTGTCATGGGTGACATCTACCTG  
CTGCTGCCTCCTGTCATCAATCCCATCATCTATGGTGCCAAAACCAACAGATCAGAACACGGGTGCTGG  
CTATGTTCAAGATCAGCTGTGACAAGGACTTGCAGGCTGTGGGAGGCAAG

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RC204752 protein sequence  
 Red=Cloning site Green=Tags(s)

MSSCNFTHATFVLIGIPGLEKAHFVWGFPLL SMYVVMFGNCIVVFIVRTERSLHAPMYLFLCMLAAIDL  
 ALSTSTMPKILALFWFDSREISFEACLQMF FIIHALSAIESTILLAMAFDRYVAICHPLRHAAVLNNTVT  
 AQIGIVAVVRGSLFFFPLPLLIKRLAFCHSNVLSHSYCVHQDVMKLAYADTLPNVYVGLT AILLVMGV DV  
 MFISLSYFLIIRTVLQLPSKSERAKAFGTCVSHIGVVLAFYVPLIGLSVVHRFGNSLHP IVRVVMGDIYL  
 LLPPVINPIIYGAKTKQIRTRVLAMFKISCDKDLQAVGGK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mk6067\\_c06.zip](https://cdn.origene.com/chromatograms/mk6067_c06.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_030774

**ORF Size:** 960 bp

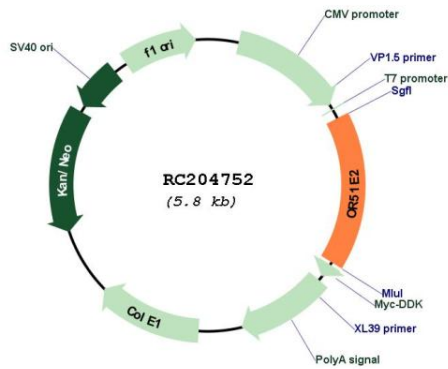
**OTI Disclaimer:** The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone 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.

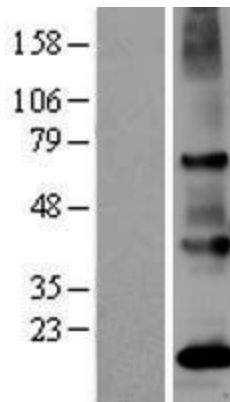
**Components:** The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_030774.2</a> , <a href="#">NP_110401.1</a>
<b>RefSeq Size:</b>	2785 bp
<b>RefSeq ORF:</b>	963 bp
<b>Locus ID:</b>	81285
<b>UniProt ID:</b>	<a href="#">Q9H255</a>
<b>Cytogenetics:</b>	11p15.4
<b>Domains:</b>	7tm_1
<b>Protein Families:</b>	Druggable Genome, GPCR, Transmembrane
<b>Protein Pathways:</b>	Olfactory transduction
<b>MW:</b>	35.5 kDa
<b>Gene Summary:</b>	Olfactory receptors interact with odorant molecules in the nose, to initiate a neuronal response that triggers the perception of a smell. The olfactory receptor proteins are members of a large family of G-protein-coupled receptors (GPCR) arising from single coding-exon genes. Olfactory receptors share a 7-transmembrane domain structure with many neurotransmitter and hormone receptors and are responsible for the recognition and G protein-mediated transduction of odorant signals. The olfactory receptor gene family is the largest in the genome. The nomenclature assigned to the olfactory receptor genes and proteins for this organism is independent of other organisms. [provided by RefSeq, Jul 2008]

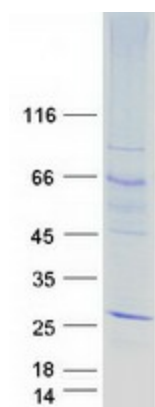
Product images:



Circular map for RC204752



Western blot validation of overexpression lysate (Cat# [LY403077]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC204752 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified OR51E2 protein (Cat# [TP304752]). The protein was produced from HEK293T cells transfected with OR51E2 cDNA clone (Cat# RC204752) using MegaTran 2.0 (Cat# [TT210002]).