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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:

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>RC204752 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGAGTTCCTGCAACTTCACACATGCCACCTTTGTGCTTATTGGTATCCCAGGATTAGAGAAAGCCCATT
TCTGGGTTGGCTTCCCCCTCCTTTCCATGTATGTAGTGGCAATGTTTGGAAACTGCATCGTGGTCTTCAT
CGTAAGGACGGAACGCAGCCTGCACGCTCCGATGTACCTCTTTCTCTGCATGCTTGCAGCCATTGACCTG
GCCTTATCCACATCCACCATGCCTAAGATCCTTGCCCTTTTCTGGTTTGATTCCCGAGAGATTAGCTTTG
AGGCCTGTCTTACCCAGATGTTCTTTATTCATGCCCTCTCAGCCATTGAATCCACCATCCTGCTGGCCAT
GGCCTTTGACCGTTATGTGGCCATCTGCCACCCACTGCGCCATGCTGCAGTGCTCAACAATACAGTAACA
GCCCAGATTGGCATCGTGGCTGTGGTCCGCGGATCCCTCTTTTTTTCCCACTGCCTCTGCTGATCAAGC
GGCTGGCCTTCTGCCACTCCAATGTCCTCTCGCACTCCTATTGTGTCCACCAGGATGTAATGAAGTTGGC
CTATGCAGACACTTTGCCCAATGTGGTATATGGTCTTACTGCCATTCTGCTGGTCATGGGCGTGGACGTA
ATGTTCATCTCCTTGTCCTATTTTCTGATAATACGAACGGTTCTGCAACTGCCTTCCAAGTCAGAGCGGG
CCAAGGCCTTTGGAACCTGTGTGTCACACATTGGTGTGGTACTCGCCTTCTATGTGCCACTTATTGGCCT
CTCAGTTGTACACCGCTTTGGAAACAGCCTTCATCCCATTGTGCGTGTTGTCATGGGTGACATCTACCTG
CTGCTGCCTCCTGTCATCAATCCCATCATCTATGGTGCCAAAACCAAACAGATCAGAACACGGGTGCTGG
CTATGTTCAAGATCAGCTGTGACAAGGACTTGCAGGCTGTGGGAGGCAAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA
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Protein Sequence:

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>RC204752 protein sequence
Red=Cloning site Green=Tags(s)

MSSCNFTHATFVLIGIPGLEKAHFWVGFPLLSMYVVAMFGNCIVVFIVRTERSLHAPMYLFLCMLAAIDL
ALSTSTMPKILALFWFDSREISFEACLTQMFFIHALSAIESTILLAMAFDRYVAICHPLRHAAVLNNTVT
AQIGIVAVVRGSLFFFPLPLLIKRLAFCHSNVLSHSYCVHQDVMKLAYADTLPNVVYGLTAILLVMGVDV
MFISLSYFLIIRTVLQLPSKSERAKAFGTCVSHIGVVLAFYVPLIGLSVVHRFGNSLHPIVRVVMGDIYL
LLPPVINPIIYGAKTKQIRTRVLAMFKISCDKDLQAVGGK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV
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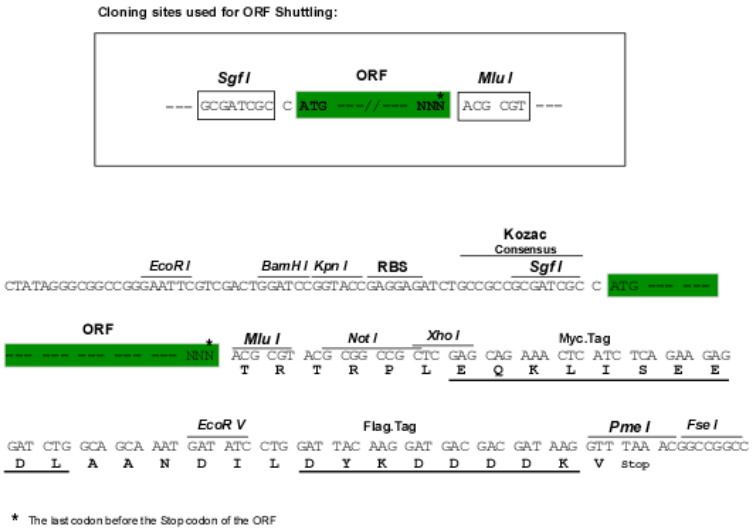
Chromatograms: https://cdn.origene.com/chromatograms/mk6067_c06.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



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).

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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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_030774.2, NP_110401.1
RefSeq Size:	2785 bp
RefSeq ORF:	963 bp
Locus ID:	81285
UniProt ID:	Q9H255
Cytogenetics:	11p15.4
Domains:	7tm_1
Protein Families:	Druggable Genome, GPCR, Transmembrane
Protein Pathways:	Olfactory transduction
MW:	35.5 kDa
Gene Summary:	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]

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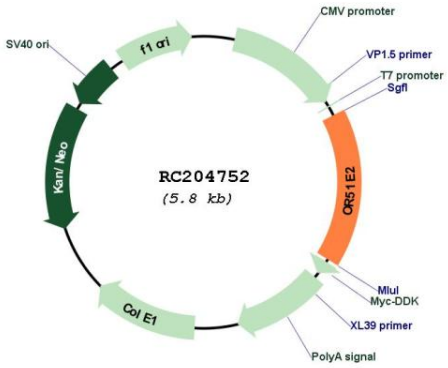
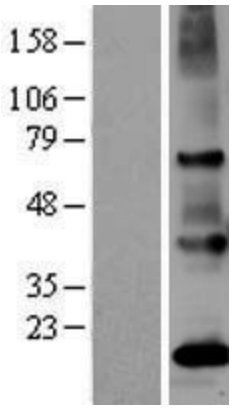
Product images:



Circular map for RC204752



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

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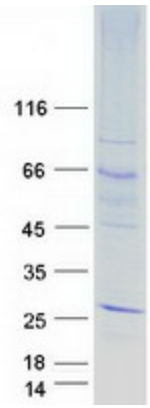

Coomassie blue staining of purified OR51E2 protein (Cat# [TP304752]). The protein was produced from HEK293T cells transfected with OR51E2 cDNA clone (Cat# RC204752) using MegaTran 2.0 (Cat# [TT210002]).

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