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Product datasheet for RC237759

NPSR1 (NM_001300933) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NPSR1 (NM_001300933) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	NPSR1
Synonyms:	ASRT2; GPR154; GPRA; NPSR; PGR14; VRR1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC237759 representing NM_001300933 Red=Cloning site Blue=ORF Green=Tags(s) TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCCGCGATCGCC ATGCCAGCCAACTTCACAGAGGGCAGCTTCGATTCCAGTGGGACCGGGCAGACGCTGGATTCTTCCCCAG TGGCTTGCACTGAAACAGTGACTTTTACTGAAGTGGTGGAAGGAAAGGAATGGGGTTCCTTCTACTACTC CTTTAAGACTGAGCAATTGATAACTCTGTGGGTCCTCTTTGTTTTTACCATTGTTGGAAACTCCGTTGTG CTTTTTTCCACATGGAGGAGAAAGAAGAAGTCAAGAATGACCTTCTTTGTGACTCAGCTGGCCATCACAG ATATTAATTGGCGATTCACTGGAGACTTCACGGCACCTGACCTGGTTTGCCGAGTGGTCCGCTATTTGCA GGTTGTGCTGCTCTACGCCTCTACCTACGTCCTGGTGTCCCTCAGCATAGACAGATACCATGCCATCGTC TACCCCATGAAGTTCCTTCAAGGAGAAAAGCAAGCCAGGGTCCTCATTGTGATCGCCTGGAGCCTGTCTT TTCTGTTCTCCATTCCCACCCTGATCATATTTGGGAAGAGGACACTGTCCAACGGTGAAGTGCAGTGCTG GGCCCTGTGGCCTGACGACTCCTACTGGACCCCATACATGACCATCGTGGCCTTCCTGGTGTACTTCATC CCTCTGACAATCATCAGCATCATGTATGGCATTGTGATCCGAACTATTTGGATTAAAAGCAAAACCTACG AAACAGTGATTTCCAACTGCTCAGATGGGAAACTGTGCAGCAGCTATAACCGAGGACTCATCTCAAAGGC AAAAATCAAGGCTATCAAGTATAGCATCATCATCATTCTTGCCTTCATCTGCTGTTGGAGTCCATACTTC CTGTTTGACATTTTGGACAATTTCAACCTCCTTCCAGACACCCAGGAGCGTTTCTATGCCTCTGTGATCA TTCAGAACCTGCCAGCATTGAATAGTGCCATCAACCCCCTCATCTACTGTGTCTTCAGCAGCTCCATCTC TTTCCCCTGCAGGGTCATCCGTCTCCGTCAGCTCCAGGAGGCTGCGCTAATGCTCTGCCCTCAACGAGAG AACTGGAAGGGTACTTGGCCAGGTGTACCTTCCTGGGCTCTTCCAAGG ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAGGTTTAA

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Protein Sequence:

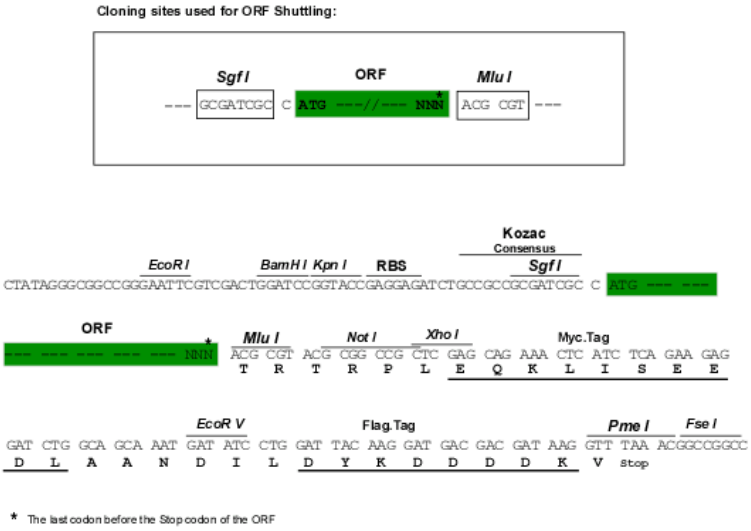
>RC237759 representing NM_001300933
Red=Cloning site Green=Tags(s)

MPANFTEGSFDSSGTGQTLDSSPVACTETVTFTEVVEGKEWGSFYYSFKTEQLITLWVLFVFTIVGNSVV
LFSTWRRKKKSRMTFFVTQLAITDINWRFTGDFTAPDLVCRVVRYLQVVLLYASTYVLVSLSIDRYHAIV
YPMKFLQGEKQARVLIVIAWSLSFLFSIPTLIIFGKRTLSNGEVQCWALWPDDSYWTPYMTIVAFLVYFI
PLTIISIMYGIVIRTIWIKSKTYETVISNCSDGKLCSSYNRGLISKAKIKAIKYSIIIILAFICCWSPYF
LFDILDNFNLLPDTQERFYASVIIQNLPALNSAINPLIYCVFSSSISFPCRVIRLRQLQEAALMLCPQRE
NWKGTWPGVPSWALPR

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001300933

ORF Size: 1098 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_001300933.2

RefSeq Size: 1423 bp

RefSeq ORF: 1101 bp

Locus ID: 387129

UniProt ID: Q6W5P4

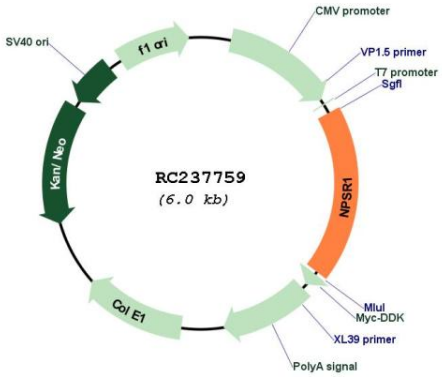
Cytogenetics: 7p14.3

Protein Families: Druggable Genome, Transmembrane

MW: 42.4 kDa

Gene Summary: This gene encodes a member of the vasopressin/oxytocin subfamily of G protein-coupled receptors. The encoded membrane protein acts as a receptor for neuropeptide S and affects a variety of cellular processes through its signaling. Increased expression of this gene in ciliated cells of the respiratory epithelium and in bronchial smooth muscle cells is associated with asthma. Polymorphisms in this gene have also been associated with asthma susceptibility, panic disorders, inflammatory bowel disease, and rheumatoid arthritis. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jul 2014]

Product images:



Circular map for RC237759