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Product datasheet for RC237339

NPSR1 (NM_001300934) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NPSR1 (NM_001300934) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	NPSR1
Synonyms:	ASRT2; GPR154; GPRA; NPSR; PGR14; VRR1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RC237339 representing NM_001300934 Red=Cloning site Blue=ORF Green=Tags(s) TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCCGCGATCGCC ATGCCAGCCAACTTCACAGAGGGCAGCTTCGATTCCAGTGGGACCGGGCAGACGCTGGATTCTTCCCCAG TGGCTTGCACTGAAACAGTGACTTTTACTGAAGTGGTGGAAGGAAAGGAATGGGGTTCCTTCTACTACTC CTTTAAGACTGAGCAATTGATAACTCTGTGGGTCCTCTTTGTTTTTACCATTGTTGGAAACTCCGTTGTG CTTTTTTCCACATGGAGGAGAAAGAAGAAGTCAAGAATGACCTTCTTTGTGACTCAGCTGGCCATCACAG AAAAGCAAGCCAGGGTCCTCATTGTGATCGCCTGGAGCCTGTCTTTTCTGTTCTCCATTCCCACCCTGAT CATATTTGGGAAGAGGACACTGTCCAACGGTGAAGTGCAGTGCTGGGCCCTGTGGCCTGACGACTCCTAC TGGACCCCATACATGACCATCGTGGCCTTCCTGGTGTACTTCATCCCTCTGACAATCATCAGCATCATGT ATGGCATTGTGATCCGAACTATTTGGATTAAAAGCAAAACCTACGAAACAGTGATTTCCAACTGCTCAGA TGGGAAACTGTGCAGCAGCTATAACCGAGGACTCATCTCAAAGGCAAAAATCAAGGCTATCAAGTATAGC ATCATCATCATTCTTGCCTTCATCTGCTGTTGGAGTCCATACTTCCTGTTTGACATTTTGGACAATTTCA ACCTCCTTCCAGACACCCAGGAGCGTTTCTATGCCTCTGTGATCATTCAGAACCTGCCAGCATTGAATAG TGCCATCAACCCCCTCATCTACTGTGTCTTCAGCAGCTCCATCTCTTTCCCCTGCAGGGAGCAAAGATCA CAGGATTCCAGAATGACGTTCCGGGAGAGAACTGAGAGGCATGAGATGCAGATTCTGTCCAAGCCAGAAT TCATC ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAGGTTTAA

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Protein Sequence:

>RC237339 representing NM_001300934
Red=Cloning site Green=Tags(s)

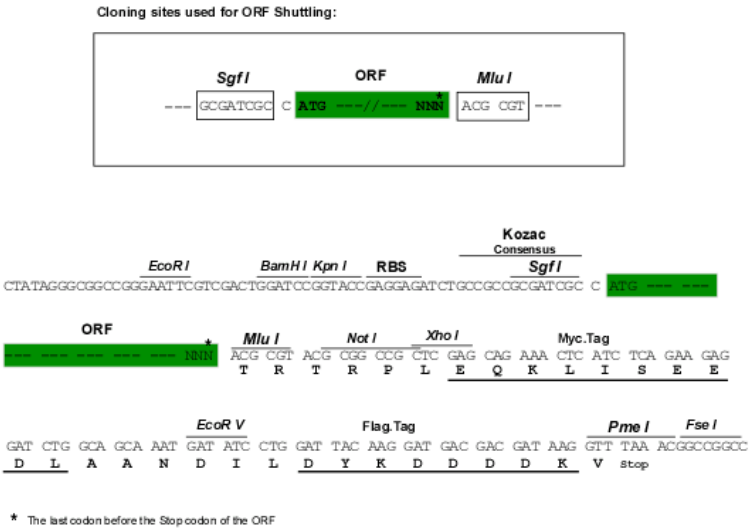
MPANFTEGSFDSSGTGQTLDSSPVACTETVTFTEVVEGKEWGSFYYSFKTEQLITLWVLFVFTIVGNSVV
LFSTWRRKKKSRMTFFVTQLAITEKQARVLIVIAWSLSFLFSIPTLIIFGKRTLSNGEVQCWALWPDDSY
WTPYMTIVAFLVYFIPLTIISIMYGIVIRTIWIKSKTYETVISNCSDGKLCSSYNRGLISKAKIKAIKYS
IIIILAFICCWSPYFLFDILDNFNLLPDTQERFYASVIIQNLPALNSAINPLIYCVFSSSISFPCREQRS
QDSRMTFRERTERHEMQILSKPEFI

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

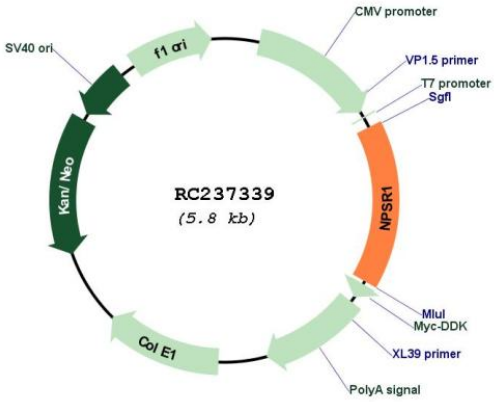
SgfI-MluI

Cloning Scheme:



* The last codon before the Stop codon of the ORF

Plasmid Map:



ACCN: NM_001300934

ORF Size: 915 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_001300934.1, NP_001287863.1
RefSeq Size:	1415 bp
RefSeq ORF:	918 bp
Locus ID:	387129
UniProt ID:	Q6W5P4
Cytogenetics:	7p14.3
Protein Families:	Druggable Genome, Transmembrane
MW:	35.6 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]