

## Product datasheet for **RG221361**

### **NPSR1 (NM\_207173) Human Tagged ORF Clone**

#### Product data:

Product Type:	Expression Plasmids
Product Name:	NPSR1 (NM_207173) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	NPSR1
Synonyms:	ASRT2; GPR154; GPRA; NPSR; PGR14; VRR1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG221361 representing NM_207173 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGCCAGCCAAC TTCACAGAGGGCAGCTTCGATTCCAGTGGGACCGGGCAGACGCTGGATTCTTCCCAG  
TGGCTTGACTGAAACAGTGACTTTTACTGAAGTGGTGGAAAGGAATGGGGTTCTTCTACTACTC  
CTTTAAGACTGAGCAATTGATACTCTGTGGTCCTCTTTGTTTTACCATTGTTGGAACTCCGTTGTG  
CTTTTTCCACATGGAGGAGAAAGAAGAAGTCAAGAATGACCTTCTTTGTGACTCAGCTGGCCATCACAG  
ATTCTTTCACAGGACTGGTCAACATCTTGACAGATATAATTGGCGATTCACTGGAGACTTCACGGCACC  
TGACCTGGTTTGCCGAGTGGTCCGCTATTTGCAGGTTGTGCTGCTACGCCTCTACCTAGCTCCTGGTG  
TCCTCAGCATAGACAGATACCATGCCATCGTCTACCCCATGAAGTTCCTTCAAGGAGAAAAGCAAGCCA  
GGTCTCATTGTGATCGCTGGAGCCTGTCTTTCTGTTCTCCATTCCCACCCTGATCATATTTGGGAA  
GAGGACTGTCCAACGGTGAAGTGCAGTGTGGGCCCTGTGGCCTGACGACTCCTACTGGACCCATAC  
ATGACCATCGTGGCCTTCTGGTGTACTTCATCCCTCTGACAATCATCAGCATCATGTATGGCATTGTGA  
TCCGAATATTTGGATTAAGCAAAACCTACGAAACAGTGATTTCACCTGCTCAGATGGGAACTGTG  
CAGCAGCTATAACCGAGGACTCATCTCAAAGGCAAAAATCAAGGCTATCAAGTATAGCATCATCATCATT  
CTTGCCCTCATCTGCTGTTGGAGTCCATACTTCTGTTTGACATTTTGGACAATTTCAACCTCCTCCAG  
ACACCCAGGAGCGTTTCTATGCCTCTGTGATCATTGAGAACCTGCCAGCATTGAATAGTGCCATCAACCC  
CCTCATCTACTGTCTTCCAGCAGCTCCATCTCTTTCCCTGCAGGGTATCCGCTCCGTCAGCTCCAG  
GAGGCTGCGCTAATGCTCTGCCCTCAACGAGAGAACTGGAAGGTTACTTGGCCAGGTGTACCTTCTGGG  
CTTTCCAAGG

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG221361 representing NM\_207173  
 Red=Cloning site Green=Tags(s)

MPANFTEGSFDSSTGQTLDSSPVACTETVTFTEVVEGKEWGSFYYSFKTEQLITLWVLFVFTIVGNSV  
 LFSTWRRKKSRMTFFVTQLAITDSFTGLVNILTDINWRFTGDFAPDLVCRVRYLQVVLLYASTYVLV  
 SLSIDRYHAIVYPMKFLQGEKQARVLIVIAWSLSFLFSIPTLIIFGKRTLSNGEVQCWALWPDDSYWTPY  
 MTIVAFLVYFIPLTIISIMYGIVIRTIWIKSKTYETVISNCSDGKLCSSYNRGLISKAKIKAIKYSIIII  
 LAFICCWSPYFLFDILDNFNLLPDTQERFYASVIIQNLPALNSAINPLIYCVFSSSISFPCRVIRLRQLQ  
 EALMLCPQRENWKGTPGVPSWALPR

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_207173

**ORF Size:** 1131 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\\_207173.2](#)

**RefSeq Size:** 1410 bp

**RefSeq ORF:** 1134 bp

**Locus ID:** 387129

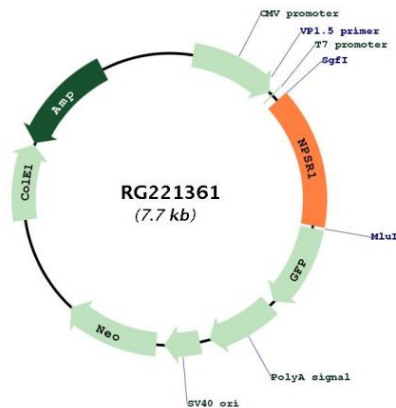
**UniProt ID:** [Q6W5P4](#)

**Cytogenetics:** 7p14.3

**Protein Families:** Druggable Genome, Transmembrane

**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 RG221361