

## Product datasheet for **RG237759**

### **NPSR1 (NM\_001300933) Human Tagged ORF Clone**

#### Product data:

Product Type:	Expression Plasmids
Product Name:	NPSR1 (NM_001300933) 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:	>RG237759 representing NM_001300933. Blue=ORF Red=Cloning site Green=Tag(s)

```
GCTCGTTT TAGTGAACCGTCAGAATTTTGT AATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCC GCGATCGCC
ATGCCAGCAACTTCACAGAGGGCAGCTTCGATTCCAGTGGGACCGGCAGACGCTGGATTCTTCCCA
GTGGCTTGCACTGAAACAGTGACTTTTACTGAAGTGGTGGAAAGGAATGGGTTCTTCTACTAC
TCCTTTAAGACTGAGCAATTGATAACTCTGTGGTCTCTTTGTTTTACCATTGTTGAAACTCCGTT
GTGCTTTTTCCACATGGAGGAGAAAGAAGAAGTCAAGAATGACCTTCTTTGTGACTCAGCTGGCCATC
ACAGATATTAATTGGCGATTCAGTGGAGACTTCACGGCACCTGACCTGGTTTGCCGAGTGGTCCGCTAT
TTGCGAGTTGTGCTGCTCTACGCTCTACCTACGTCCTGGTGTCCCTCAGCATAGACAGATACCATGCC
ATCGTCTACCCCATGAAGTTCCTTCAAGGAGAAAAGCAAGCCAGGGTCCCTATTGTGATCGCCTGGAGC
CTGTCTTTTCTGTCTCCATTCCCACCCTGATCATATTTGGGAAGAGGACTGTCCAACGGTGAAGTG
CAGTGTGGGCCCTGTGGCCTGACGACTCTACTGGACCCATACATGACCATCGTGGCCTTCTGGTG
TACTTCATCCCTCTGACAATCATCAGCATCATGTATGGCATTGTGATCCGAACTATTTGGATTAAGC
AAAACCTACGAAACAGTGATTTCCAAGTCTCAGATGGGAAACTGTGCAGCAGCTATAACCGAGGACTC
ATCTCAAAGGCAAAAATCAAGGCTATCAAGTATAGCATCATCATTCTGCCTCATCTGCTGTTGG
AGTCCATACTTCTGTTTGACATTTTGGACAATTTCAACCTCCTCCAGACACCCAGGAGCGTTTCTAT
GCCTCTGTGATCATTGAGAACCAGCAGCATTGAATAGTGCATCAACCCCTCATCTACTGTGCTTC
AGCAGCTCCATCTTTCCCTGCAGGGTCATCGTCTCGTCAGCTCCAGGAGGTCGCCTAATGCTC
TGCCCTCAACGAGAGAACTGGAAGGGTACTTGGCCAGGTGTACCTTCTGGGCTCTTCCAAGG
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
```



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**Protein Sequence:** >Peptide sequence encoded by RG237759  
 Blue=ORF Red=Cloning site Green=Tag(s)

MPANFTEGSFDSSSGTGQTLDSSPVACTETVTFTEVVEGKEWGSFYYSFKTEQLITLWVLFVFTIVGNSV  
 VLFSTWRRKKKSRMTFFVTQLAITDINWRFTGDFAPDLVCRVRYLQVLLYASTYVLSIDRYHA  
 IVYPMKFLQGEKQARVLIVIAWSLSFLFSIPTLIIFGKRTLNGEVQCWALWPDDSYWTPYMTIVAFV  
 YFIPLTIISIMYGIVIRTIWIKSKTYETVISNCSGKLCSSYNRGLISKAKIKAIKYSIIILAFICCW  
 SPYFLFDILDNFNLLPDTQERFYASVIIQNLPALNSAINPLIYCVFSSSISFPCRVIIRLRLQEAALML  
 CPQRENWKGTPGVPSWALPR  
 TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV  
 MGYGFYHFGTYPYSGYENPFLHAINNGGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED  
 SVIFTDKIIRSNATVEHLHPMGDNDLDGSFTRTFLRDGGYSSVVD SHMHFKSAIHPSILQNGGPMFA  
 FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV

**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).

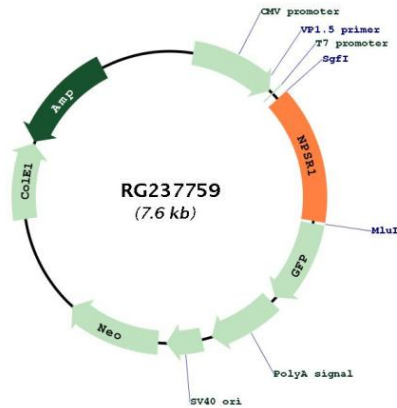
**RefSeq:** [NM\\_001300933.2](#)

**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 RG237759