

## Product datasheet for **MG226634**

### Npy2r (NM\_008731) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Npy2r (NM_008731) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Npy2r
Synonyms:	NPY2-R
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG226634 representing NM_008731 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGGCCCGGTAGGTGCAGAGGCAGATGAGAATCAAAGTGTAGAAGTGAAAGTGGAGCCCTATGGGCCAG  
GGCACACTACTCCTAGAGGTGAGTTGCCCCCTGATCCGGAGCCGGAGCTCATAGACAGCACCAAAGTGGT  
CGAGGTGCAGGTGATCCTCATATTGGCCTACTGCTCCATCATCTTGCTAGGGGTAGTTGGCAACTCCCTG  
GTAATCCATGTGGTAATCAAATCAAGAGCATGCGCACAGTAACCAACTTTTTTATTGCCAACCTGGCTG  
TGGCGGATCTTTTGGTGAACACCCTGTGCCTGCCATTCACTCTTACCTATACCTTGATGGGAGAGTGGAA  
AATGGGTCCGGTCTTGTGCCATTTGGTGCCTATGCCAGGGTCTGGCGGTACAAGTGTCCACAATAACT  
TTGACAGTCATTGCTCTGGACCGCCATCGTTGCATTGTCTACCACCTGGAGAGCAAGATCTCCAAGCGAA  
TCAGCTTCCTGATCATTGGCCTGGCCTGGGGCATCAGCGCTCTGCTGGCAAGTCCACTGGCCATCTTCCG  
GGAATACTCCCTGATTGAGATCATTCTGACTTTGAGATTGTGGCCTGTACCGAGAAGTGGCCTGGGGAA  
GAGAAGAGTGTGTATGGTACAGTCTACAGCCTTCCACCCTGCTCATCCTGTACGTTTGGCTCTGGGCA  
TCATATCTTCTCCTACACCCGATCTGGAGTAAGCTGAGGAACACAGTCAGTCTGGAGCTGCAAGTGA  
CCATTACCATCAGCGAAGGCACAAAATGACCAAAATGCTGGTGTGCGTGGTAGTGGTGTTCAGTCAGC  
TGGCTACCCCTCCAGCCTTCCAAGTGTGGACATCGACAGCCACGTCCTGGACCTGAAGGAGTACA  
AACTCATCTTACCGTGTCCACATTATCGCCATGTGCTCCACCTTTGCCAACCCCTTCTCTATGGTTG  
GATGAATAGCAACTACAGAAAAGCTTCTCTCGGCCTCCGCTGTGAGCAGAGGTTGGATGCCATTAC  
TCGGAGGTGTCTATGACCTTCAAGGCTAAAAAGAACCTGGAAGTCAAAAAGAACAATGGCCCCACTGACT  
CTTTTTCGGAGGCTACCAATGTG

**ACCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >MG226634 representing NM\_008731  
Red=Cloning site Green=Tags(s)

MGPVGAEADENQTVEVKVEPYGPGHTTPRGELPPDPEPELIDSTKLVEVQVILILAYCSIIILGVVGNLS  
 VIHVVIKFKSMRTVTNFFIANLAVADLLVNTLCLPFTLYTLMGEWKMGVPLCHLVPYAQGLAVQVSTIT  
 LTVIALDRHRCIVYHLESKISKRISFLIIGLAWGISALLASPLAIFREYSLIEIIPDFEIVACTEKWPGE  
 EKSVMYGTVYSLSTLLILYVPLPLGIISFSYTRIWSKLRNHVSPGAASDHYHQRRHKMTKMLVCVVVFAVS  
 WLPLHAFQLAVDIDSHVLDLKEYKLIFTVFHIIAMCSTFANPLL YGWMNSNYRKAFLSAFRCEQRLDAIH  
 SEVSMTFKAKKNLEVKKNNGPTDSFSEATNV

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_008731

**ORF Size:** 1143 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\\_008731.3](#), [NP\\_032757.2](#)

**RefSeq Size:** 3361 bp

**RefSeq ORF:** 1146 bp

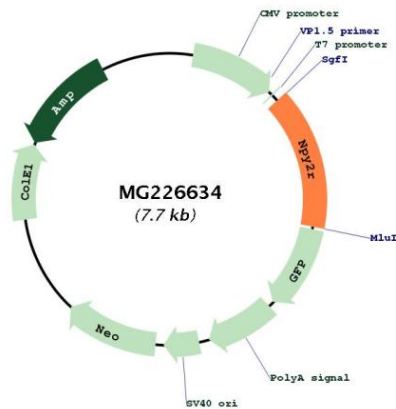
**Locus ID:** 18167

**UniProt ID:** [P97295](#)

**Cytogenetics:** 3 36.49 cM

**Gene Summary:** Receptor for neuropeptide Y and peptide YY.[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MG226634