

## Product datasheet for **MG224644**

### **Npy5r (NM\_016708) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Npy5r (NM_016708) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Npy5r
Synonyms:	NPY5-R; NPYY5-R; Y5R
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>MG224644 representing NM\_016708  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGAGGTTAAACTTGAAGAGCATTTTAAACAAGACATTTGTCACGGAGAACAATACTGCTGCCAGTCAGA  
 ACACGGCCTCCCTGCCTGGGAGGACTACAGAGGCACAGAGAACAATACTTCTGCTGCTCGGAACACTGC  
 CTTTCCAGTCTGGGAGGACTATAGAGGCAGCGTAGACGACTTACAATACTTCTGATTGGCTCTATAACA  
 TTTGTAAGTCTTCTTGGTTTTATGGGAAATCTACTTATCTTAATGGCTGTTATGAAAAAGCGCAATCAGA  
 AGACTACAGTGAACCTTCTCATAGGCAACCTGGCCTTCTCCGACATTTTGGTTGCTCTGTTTTGCTCCCC  
 TTTACCCTGACCTCTGTCTTGGTGGATCAGTGGATGTTCCGCAAAGCCATGTGCCATATCATGCCATTC  
 CTTCAGTGTGTATCAGTCTGGTTCAACTCTGATTTTAAATCGATTGCCATTGTCAGGATCATATGTA  
 TAAAGCACCTATATCTAACAAATTAACAGCAAACCATGGCTACTTCTGATAGCTACTGCTGGACACT  
 GGGCTTTGCCATCTGTTCTCCCCTCCAGTGTTTCACAGCCTTGTGGAACCTAAGGAAACCTTTGGCTCA  
 GCATTGCTAAGCAGCAAGTATTTGTGTGTTGAGTCATGGCCCTCTGATTACATACAGAATTGCTTTCACAA  
 TCTCTTTATTGTTAGTTCAGTATATCCTGCCTCTAGTATGTTTAAACAGTAAGTCATACTAGTGTCTGCAG  
 GAGTATAAGCTGTGGATTGTCCCACAAAGAAAACAGACTCGAAGAAAATGAGATGATCAACTTAACTCTA  
 CATCCATCCAAAAAGAGTCGGGACCAGGCAAAACCCCCAGCACTCAAAAGTGGAGCTACTCATTTCATCA  
 GAAAGCACCGAAGAAGGTACAGCAAGAAGACGGCATGCGTGTACCCGCCAGCAGGACCTTCCAGGA  
 GAAGCACCTAACCGTCCAGAAAACCCAGGCTCGGTCCGTAGCCAGCTGTACCATCCAGTAAGGTTATT  
 CCAGGGTCCCGATCTGCTTTGAGGTGAAACCTGAAGAAAGCTCAGATGCTCAGGAGATGAGAGTCAAGC  
 GTTCCCTCAGGAGATAAAGAAGAGATCTCGCAGTGTTTTCTACAGACTGACTATATTGATATTAGTGTT  
 CGCTGTTAGCTGGATGCCACTCCAGTCTTCCAGTGTTGACCGATTTCATGATAACCTGATTTCCAAT  
 AGGCATTTCAAGCTGGTGTACTGCATCTGTCACTTGTAGGCATGATGCTCCTGTTGCTTAAATCCGATCT  
 TATATGGATTCCTAATAATGGTATCAAAGCAGACTTGAGAGCCCTTATCCACTGCCTACACATGTCA

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:**

>MG224644 representing NM\_016708  
 Red=Cloning site Green=Tags(s)

MEVKLEEHNKTFVTENNTAASQNTASPAWEDYRGTENNTSAARNTAFPVWEDYRGSVDDLQYFLIGLYT  
 FVSLLGFMGNLLILMAVMKRNQKTTVNFLIGNLAFSDILVVLFCSPFTLTSVLLDQWMFGKAMCHIMPF  
 LQCVSVLVSTLILISIAIVRYHMIKHPISNNLTANHGYFLIATVWTLGFAICSPPLVFHSLVELKETFGS  
 ALLSSKYL CVESWPSDSYRIAFITISLLLVQYILPLVCLTVSHTSVCRSISCLGSHKENRLEENEMINLTL  
 HPSKKS RDQAKPPSTQKWSYSFIRKHRRRYSKKTACVLPAPAGPSQEKHLTPENPGSVRSQSPSSKVI  
 PGVPICFEVKPEESSDAQEMRVKRSLTRIKKRSRSVFYRLTILILVFAVSWMPLHVFHVVDNFNDNLISN  
 RHFKLVYICHELLGMMSCLNPILYGFLLNNGIKADLRALIHCLHMS

**TRTRPLE** - GFP Tag - V

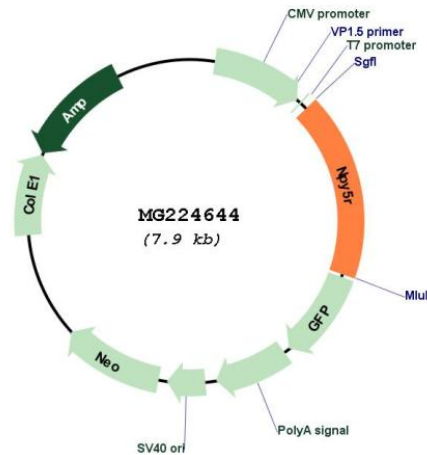
**Restriction Sites:**

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM\_016708

ORF Size: 1398 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.

<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u><a href="#">NM_016708.3</a></u> , <u><a href="#">NP_057917.2</a></u>
<b>RefSeq Size:</b>	2314 bp
<b>RefSeq ORF:</b>	1401 bp
<b>Locus ID:</b>	18168
<b>UniProt ID:</b>	<u><a href="#">O70342</a></u>
<b>Cytogenetics:</b>	8 33.15 cM
<b>Gene Summary:</b>	Receptor for neuropeptide Y and peptide YY. The activity of this receptor is mediated by G proteins that inhibit adenylate cyclase activity. Seems to be associated with food intake. Could be involved in feeding disorders (By similarity).[UniProtKB/Swiss-Prot Function]