

Product datasheet for **RG223697**

NPW (NM_001099456) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Tag: TurboGFP
Symbol: NPW
Synonyms: L8; L8C; PPL8; PPNPW
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)

ORF Nucleotide Sequence: >RG223697 representing NM_001099456
Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTAAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

CTGGCGTGGCGCCAGGGGAGCGGGGGCTCCCGCAGCCGGCCGGCTGGCACTGCTGCTCTCTGC
TCCTGCTGCCGCTGCCCTCCGGCGCGTGGTACAAGCACGTGGCGAGTCCCGCTACACACGGTGGGCCG
CGCCGCTGGCTGCTCATGGGGCTGCGTCGCTCACCTATCTGTGGCGCCGCGCTGCGCGCGGCCGCC
GGGCCCCTGGCCAGGGACACCTCTCCCCGAACCCGACCCCGCAGGCTCCTCTCTGCTGCCCTCGT
GGGTTTCAGGAGCTGTGGGAGACGCGACGACAGGAGCTCCAGGCAGGGATCCCGTCCGTGCGCCCCGGAG
CCCGCGCGCCAGAGCCTGCGCTGGAACCGAGTCCCTGGACTTCAGCGGAGCTGGCCAGAGACTTCGG
AGAGACGTCTCCCGCCAGCGGTGGACCCCGCAGCAAACCGCCTTGGCCTGCCCTGCCTGGCCCCGGAC
CGTTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG223697 representing NM_001099456
Red=Cloning site Green=Tags(s)

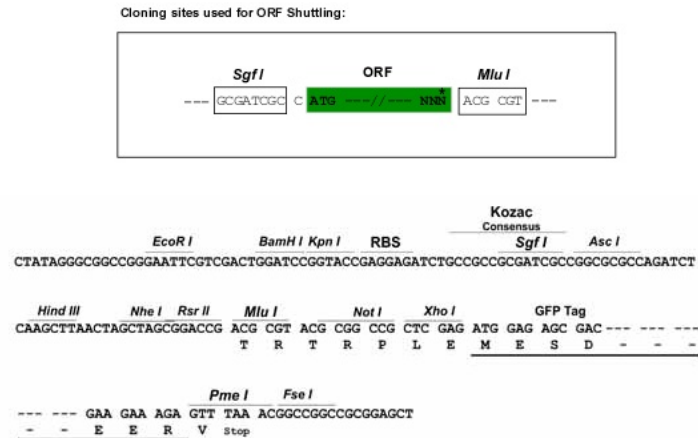
LAWRPERGAPASRPRLALLLLLLLLPLPSGAWYKHVASPRYHTVGRAAGLLMGLRRSPYLWRRALRAAA
GPLARDTLSPEPAAREAPLLPSWVQELWETRRRSSQAGIPVRAPRSPRAPEPALEPESLDFSGAQRLR
RDVSRPAVDPAANRLGLPCLAPGPF

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI



Cloning Scheme:



ACCN: NM_001099456

ORF Size: 495 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.

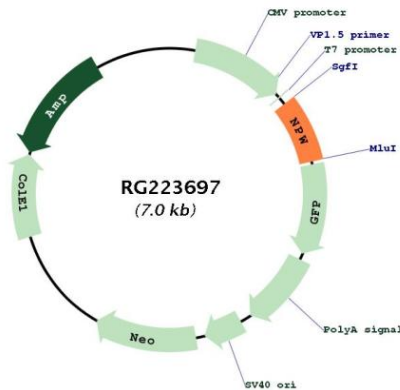
Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_001099456.3](#)

RefSeq Size: 1033 bp
RefSeq ORF: 498 bp
Locus ID: 283869
UniProt ID: [Q8N729](#)
Cytogenetics: 16p13.3

Gene Summary: The product of this gene is processed into 23- and 30-amino acid neuropeptides that bind and activate two G-protein coupled receptors in the central nervous system. The neuropeptides have been shown to enhance cortisol secretion from adrenal cells through the adenylate cyclase/protein kinase A signaling cascade. The preproprotein is translated using a non-AUG initiation codon that is inferred from analyses of the mouse ortholog. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG223697