

Product datasheet for MC208519

Gal (NM_010253) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Gal (NM_010253) Mouse Untagged Clone
Tag: Tag Free
Symbol: Gal
Synonyms: G; Galn
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >MC208519 representing NM_010253
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGGCCAGAGGCAGCGTTATCCTGCTAGGCTGGCTCCTGTTGGTTGTGACCCTGTCAGCCACTCTGGGAC
TTGGGATGCCTGCAAAGGAGAAGAGAGGTTGGACCCTGAACAGCGCTGGCTACCTTCTGGGCCACATGC
CATTGACAACCACAGATCATTTAGCGACAAGCATGGCCTCACAGGCAAGGGGAGTTACAACCTGGAGGTG
GAGGAAAGGAGACCAGGAAGTGTGATGTGCCCTGCCTGAGAGCAACATTGTCCGCACTATAATGGAGT
TTCTCAGTTTCTTGACACCTAAAGAGGGCCGGGCCCTCGACAGCCTGCCTGGCATCCCCTTGGCCACCTC
TCAGAAGACCTAGAGAAGTCTGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: Sgfl-MluI
ACCN: NM_010253
Insert Size: 375 bp
OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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_010253.3](#), [NP_034383.1](#)

RefSeq Size: 699 bp

RefSeq ORF: 375 bp

Locus ID: 14419

UniProt ID: [P47212](#)

Cytogenetics: 19 3.16 cM

Gene Summary: This gene encodes a neuroendocrine peptide that is principally produced by a subpopulation of lactotrophs in the pituitary gland. The encoded protein is a precursor that is proteolytically processed to generate two mature peptides: galanin and galanin message-associated peptide (GMAP). Mice lacking the encoded protein fail to lactate sufficiently due to abnormalities in the expression of prolactin and lactotroph proliferation, exhibit attenuated chronic neuropathic pain and developmental deficits in the dorsal root ganglion neurons. This gene encodes distinct isoforms, some or all of which may undergo similar processing to generate the mature proteins. [provided by RefSeq, Jul 2016]
Transcript Variant: This variant (1) represents the longer transcript and encodes the shorter protein (isoform 1).