

Product datasheet for **MR225635**

Gal (NM_010253) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Gal (NM_010253) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Gal
Synonyms: G; Galn
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >MR225635 representing NM_010253
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCCAGAGGCAGCGTTATCCTGCTAGGCTGGCTCCTGTTGGTTGTGACCCTGTCAGCCACTCTGGGAC
TTGGGATGCCTGCAAAGGAGAAGAGAGGTTGGACCCTGAACAGCGCTGGCTACCTTCTGGGCCACATGC
CATTGACAACCACAGATCATTTAGCGACAAGCATGGCCTCACAGGCAAGAGGGAGTTACAACCTGGAGGTG
GAGGAAAGGAGACCAGGAAGTGTGATGTGCCCTGCCTGAGAGCAACATTGTCGGCACTATAATGGAGT
TTCTCAGTTTCTGCACCTTAAAGAGGCCGGGGCCCTCGACAGCCTGCCTGGCATCCCCTTGCCACCTC
CTCAGAAGACCTAGAGAAGTCC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR225635 representing NM_010253
Red=Cloning site Green=Tags(s)

MARGSVILLGWLLLVTLSATLGLGMPAKEKRGWTLNSAGYLLGPHAIDNHRFSKDKHGLTGKRELQLEV
EERRPGSVDVPLPESNIVRTIMEFLSFLHLKEAGALDSLPGIPLATSSDLEKS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9007_h10.zip

Restriction Sites: Sgfl-Mlul



[View online »](#)

Cloning Scheme:


ACCN: NM_010253

ORF Size: 372 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_010253.4](#)

RefSeq Size: 699 bp

RefSeq ORF: 375 bp

Locus ID: 14419

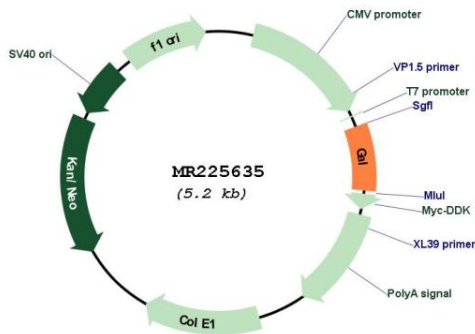
UniProt ID: [P47212](#)

Cytogenetics: 19 3.16 cM

MW: 13.9 kDa

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]

Product images:



Circular map for MR225635