

Product datasheet for **MG226535**

Kiss1 (NM_178260) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Kiss1 (NM_178260) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Kiss1
Synonyms: kisspeptin; metastatin
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG226535 representing NM_178260
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGATCTCAATGGCTTCTTGGCAGCTGCTGCTTCTCTCTGTGTCGCCACCTATGGGGAGCCGCTGGCAA
AAGTGAAGCCTGGATCCACAGGCCAGCAGTCCGGACCCAGGAACCGTTAATGCCTGGGAAAAGGAATC
GCGGTATGCAGAGAGCAAGCCTGGGTCTGCAGGGCTGCGCGCTCGTAGGTCGTCGCATGCCCGCCGTT
GAGGGCCCCGCGGGCGCCAGCGGCCCTGTGTGCCTCCCGCAGTCGCCTGATCCCTGCGCCCCGCGGAG
CGGTGCTGGTGCAGCGGAGAAGGACCTGTCCACCTACAACCTGGAACCTCTCGGCTGCGCTACGGCAG
GAGGCAGCGCGCCGCGGCAGCACGGGGC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG226535 representing NM_178260
Red=Cloning site Green=Tags(s)

MISMASWQLLLLLCVATYGEPLAKVKPGSTGQQSGPQELVNAWEKESRYAESKPGSAGLRARRSSPCPPV
EGPAGRQRPLCASRSLIPAPRGAVLVQREKDLSTYNWNSFGLRYGRRQAARAARG

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI



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OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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_178260.3](#), [NP_839991.2](#)

RefSeq Size: 496 bp

RefSeq ORF: 381 bp

Locus ID: 280287

UniProt ID: [Q6Y4S4](#)

Cytogenetics: 1 E4

Gene Summary: Metastasis suppressor protein. May regulate events downstream of cell-matrix adhesion, perhaps involving cytoskeletal reorganization. Generates a C-terminally amidated peptide, metastin which functions as the endogenous ligand of the G-protein coupled receptor GPR54. Activation of the receptor inhibits cell proliferation and cell migration, key characteristics of tumor metastasis. The receptor is also essential for normal gonadotropin-released hormone physiology and for puberty. The hypothalamic KiSS1/GPR54 system is a pivotal factor in central regulation of the gonadotropic axis at puberty and in adulthood. Intracerebroventricular administration induces an increase in serum LH and FSH levels in prepubertal male and female as well as in adult animals.[UniProtKB/Swiss-Prot Function]