

Product datasheet for RR213687

TagIn (NM_031549) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: TagIn (NM_031549) Rat Tagged ORF Clone
Tag: Myc-DDK
Symbol: TagIn
Synonyms: Sm22
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RR213687 representing NM_031549
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGC**C

ATGGCCAACAAGGTCCATCCTATGGCATGAGCCGTGAAGTGCAGTCCAAGATTGAGAAGAAGTATGATG
AGGAGCTGGAGGACGGCTAGTGGAGTGGATTGTAATGCAGTGTGGCCCTGATGTGGCCGTCCAGATCG
TGGGCGCTGGGCTTCCAGGTGTGGCTGAAGAATGGCGTGATTCTGAGCAAGTTGGTGAACAGCCTGTAC
CCCGAGGGATCCAAGCCAGTGAAGGTGCCTGAGAACCCGCCCTCCATGGTCTTCAAGCAGATGGAACAGG
TGGCTCAATTCTTGAAGGCAGCTGAGGATTATGGAGTACGAAGACTGACATGTTCCAGACTGTTGACCT
CTTTGAAGGAAAAGATATGGCAGCAGTGCAGAGGACTGTAATGGCTTTGGGCAGTTTGGCCGTGACCAAG
AACGATGGACTACCGTGGAGATCCCAACTGGTTTATGAAGAAAGCCAGGAGCATAAGAGGGAGTTCA
CAGACAGTCAACTGCAGGAGGGGAAGCACGTATTGGCCTTCAAATGGGCAGCAACAGAGGGGCCTCACA
GGCTGGCATGACAGGCTATGGGCGACCCCGGCAGATCATCAGT

ACGCGTACGCGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RR213687 representing NM_031549
 Red=Cloning site Green=Tags(s)

MANKGPSYGMSREVQSKIEKKYDEELEERLVEWIVMQCPDVGRPDRGRLGFQVWLKNGVILSKLVNSLY
PEGSKPKVVPENPPSMVFKQMEQVAQLKAAEDYGVTKTDMFQTVDLFEKDMAAVQRTVMALGSLAVTK
NDGHYRGDPNWFMKKAQEHKREFTDSQLQEGKHVIGLQMGSNRGASQAGMTGYGRPRQIIIS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

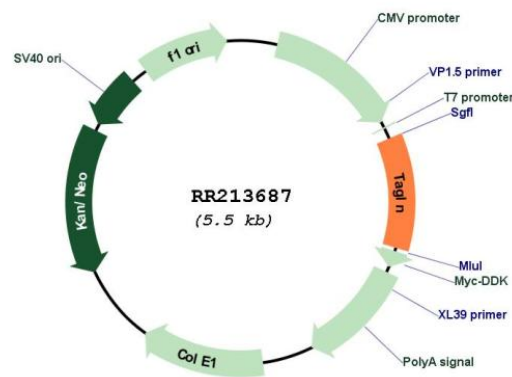


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Cloning Scheme:



Plasmid Map:



ACCN: NM_031549

ORF Size: 603 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_031549.2](#), [NP_113737.1](#)

RefSeq Size: 1130 bp

RefSeq ORF: 606 bp

Locus ID: 25123

UniProt ID: [P31232](#)

Cytogenetics: 8q22

MW: 22.6 kDa

Gene Summary: acts as an actin cross-linking protein [RGD, Feb 2006]