

Product datasheet for **MG219335**

Kcnp3 (NM_001111331) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Kcnp3 (NM_001111331) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Kcnp3
Synonyms: 4933407H12Rik; AI413860; Csen; DREAM; KChIP3; R74849
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG219335 representing NM_001111331
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGGGATT**CAGGGTATGGAGCTGTGCGCCATGGCTGTGGTGGTCTGCTGTTTCATTGCCGTCTCAAGC**
AGTTCGGCATCTTGAACCCATGTCCATGGAAGACAGCAGTGACAGTGAAGTATCCACGGTGCG
CCATCAGCCAGAGGGCTTGGACCAGCTACAAGCTCAGACCAAGTTCACCAAGAAGGAGCTGCAGTCCCTT
TACCGAGGCTTCAAGAATGAGTGTCCACAGGCCTGGTGGATGAAGACACCTTCAAACCTATTTATCC
AGTTCTCCCTCAGGGAGATGCCACCACCTATGCACACTTCTCTCAATGCCTTCGATGCTGATGGAA
CGGGGCCATCCACTTTGAGGACTTTGTGGTGGGCTCTCCATCCTGCTTCGAGGGACGGTCCATGAGAAG
CTCAAGTGGGCCTTCAATCTCTATGACATTAACAAGGATGGTTGCATCACCAAGGAGGAGATGCTGGCCA
TCATGAAGTCCATCTACGACATGATGGGCCGCCACACCTACCCCATCCTGCGGGAGGATGCACCCCTGGA
GCATGTGGAGAGGTTCTTTCAGAAAATGGACAGGAACCAGGATGGAGTGGTGACCATTGATGAATTTCTG
GAGACTTGTCAGAAGGATGAGAACATCATGAACTCCATGCAGCTGTTTGAGAACGTCATC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG219335 representing NM_001111331
 Red=Cloning site Green=Tags(s)

MGIQGMELCAMAVVLLFIAVLKQFGILEPMSMEDSSDSELELSTVRHQPEGLDQLQAQTKFTKKELQSL
 YRGFKNECPTGLVDEDTFKLIYSQFFPQGDATTYAHFLNFAFDADGNGAIHFEDFVVGLSILLRGTVHEK
 LKWFANLYDINKDGCITKEEMLAIMKSIYDMMGRHTYILREDAPLEHVERFFQKMDRNQDGVVTIDEFL
 ETCQKDENIMNSMQLFENVI

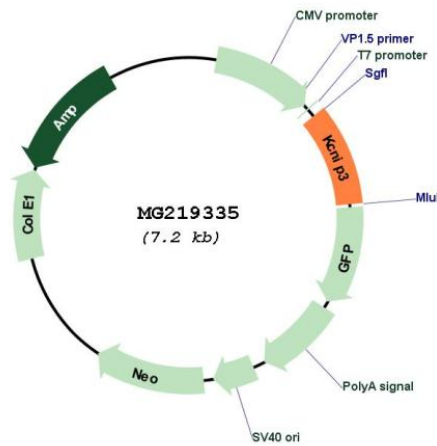
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001111331

ORF Size: 690 bp

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|-------------------------------|---|
| 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: | <ol style="list-style-type: none">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_001111331.1 , NP_001104801.1 |
| RefSeq Size: | 2928 bp |
| RefSeq ORF: | 693 bp |
| Locus ID: | 56461 |
| UniProt ID: | Q9QXT8 |
| Cytogenetics: | 2 F1 |
| Gene Summary: | Calcium-dependent transcriptional repressor that binds to the DRE element of genes including PDYN and FOS. Affinity for DNA is reduced upon binding to calcium and enhanced by binding to magnesium. Seems to be involved in nociception.[UniProtKB/Swiss-Prot Function] |