

Product datasheet for **MG225518**

Kctd8 (NM_175519) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Kctd8 (NM_175519) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Kctd8
Synonyms:	A730087N02Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

**ORF Nucleotide
Sequence:**

>MG225518 representing NM_175519
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGC**C

ATGGCTCTGAAGGACACGGGCAGCGCGGCAGCACCATCCTCCCGATCAGCGAGATGGTGTCCGCGTCCA
 GCTCTCCCGGCGCTCCGCTGGCCGCCGCCCGGGGCCCTGCGCCCGTCGCCCTTCCCGAGGTAGTGGA
 GCTGAATGTTGGCGGCCAGGTTTATGTGACCAAGCATTGACGTTACTCAGCGTCCCGGACAGCACTCTG
 GCCAGCATGTTCTCACCCTCTAGTCCCCGGGGCGCGCTAGGCGCCGGGCGACTTGCCAGGGACAGCC
 GCGCGCGCTTCTTCATCGACCGGACGGCTTCTCTTTAGGTACGTGCTGGATTACCTGCGCGACAAGCA
 GCTGGCACTGCCGAGCACTTTCCCGAGAAGGAGAGGCTCCTGCGCGAAGCAGAGTTCTTTCAGCTCACC
 GACCTGGTCAAGCTGCTGTGCGCCAAGGTACCAAGCAGAACTCGCTAACGATGAGTGCTGCCAGAGCG
 ACCTGGAGGACAACGTTTCCAGGGCAGCAGCGACGCACTGCTGCTGCGTGGGGCGGCGGCTGGCGCGCC
 CTCGGGCTCTGGGCACATGGTGTGAGTGGTGTAGTCGGTGGTGGCAGCGCTCCGACAAGCGCTCTGGG
 TTCTCTACCCCTGGGCTACCGTGGCTCTTACACCACGGTGCAGATAAACCAGGCAGATGCCAAGTTAGGC
 GTGTGGCGCGCATCATGGTGTGTGGGCGCATAGCCTTGCCCAAGGAGGTCTTTGGGGACACTCTTAATGA
 GAGTCGCGACCCGTGACCGTCAGCCTGAGAAGTACACATCCCGCTTCTACCTCAAGTTACCTACTTGGAG
 CAGGCGTTCGATCGACTGTCTGAGGCGCGCTTCCACATGGTGGCGTGCAACTCCTCTGGCACTGCCGCT
 TTGTCAACCAGTACCGAGACGACAAGATCTGGAGCAGTTACACTGAATACATCTTCTCCGACCCTCA
 GAAATAGTGTACCCCAAGCAAGAACATGAAGACAGGAAACGCGACAAAGTCACAGACAAAGGAAGTGAG
 AGTGGGACTTCTGCAATGAGCTCTCCACATCCAGCTGTGACAGCACTCAGAGGCCAGCACTCCACAGG
 ACAACCCAGCCAACTCAGCAGGCTGCAGCTCACCAGCCTAACACCTTAACCTTGATAGACCTCCAG
 GAAAGCACCTGTTTCAGTGGATGCCACCAGACAAGCGCAGAAACAGTGAAGTCTTTCAGTCACTCATC
 AGCAAGTCCCGAGAAACAAATCTCTCCAAAAAGAGGTCTGTGAGAAGCTAAGTGTAGAAGAAGAAATGA
 AAAAGTGATTACAGATTTTAAAAAATCCATATTCCAGATTGTTTTCCAGAGCGCAAACGCCAGTGGCA
 ATCTGAAGTCTCCAAAAATATGGGTTG

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>MG225518 representing NM_175519
 Red=Cloning site Green=Tags(s)

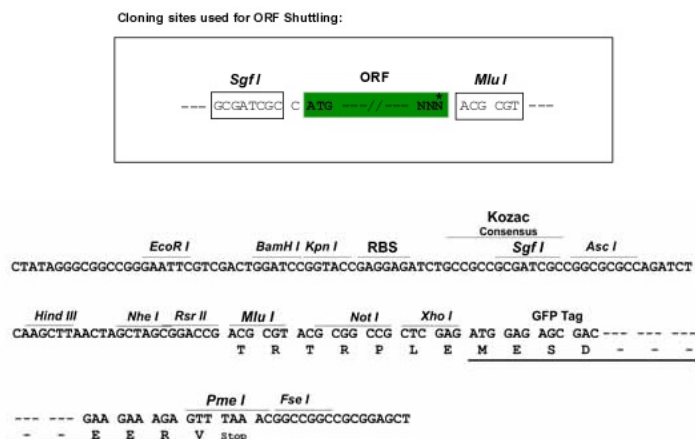
MALKDTGSGGSTILPISEMVSASSSPGAPLAAAPGPCAPSPFPEVVVELNVGGQVYVTKHSTLLSVPDSTL
 ASMFSPSSPRGGARRRGDLPRDSRARFFIDRDGFLFRYVLDYLRDKQLALPEHFPEKERLLREAEFFQLT
 DLVKLLSPKVTKQNSLNDECCQSDLEDNVSQSSDALLLRGAAAGAPSGSGAHGVSGVVGGSAPDKRSG
 FLTLGYRGSYTTVRDNQADAKFRRVARIMVCGRIALAKEVFGDTLNE SRDPDRQPEKYTSRFYLFKFTYLE
 QAFDRLSEAGFHMVACNSSGTAAFVNQYRDDKIWSSYTEYIFFRPPQKIVSPKQEHEDRKRDKVTDKGSE
 SGTSCNELSTSSCDHSEASTPQDNPAANTQAAAAHQPNLTLD RPSRKAPVQWMPDPKRRNSELFQSLI
 SKSRETNLSKKKVCEKLSVEEEMKKCIQDFKKIHIPDCFPERKRQWQSELLQKYGL

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



ACCN: NM_175519

ORF Size: 1428 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_175519.5](#), [NP_780728.3](#)

RefSeq Size: 2889 bp

RefSeq ORF: 1431 bp

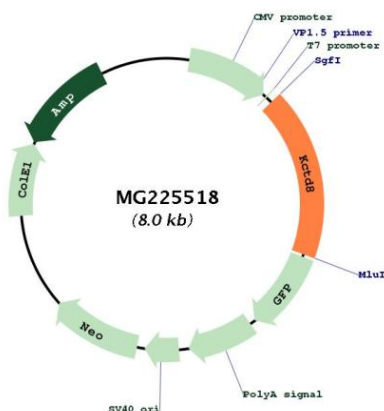
Locus ID: 243043

UniProt ID: [Q50H33](#)

Cytogenetics: 5 C3.1

Gene Summary: Auxiliary subunit of GABA-B receptors that determine the pharmacology and kinetics of the receptor response. Increases agonist potency and markedly alter the G-protein signaling of the receptors by accelerating onset and promoting desensitization.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG225518