

Product datasheet for **MG204825**

Kctd13 (NM_172747) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Kctd13 (NM_172747) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Kctd13
Synonyms: 1500003N18Rik; AV259508; Pdip1; PDIP1alpha; Poldip1
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG204825 representing NM_172747
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTCGGCCGAGGCTCGGGCCCGCGCCGGCTGCGGCCGAATGCTTGGAGTCCCCTAGCCCCTCGAGTG
TGGAGCCTGGCTCCCCCTCGTACAGTCTGAAGCCCCTCACCCGAACAGCAAGTATGTGAAGCTGAACGT
GGGCGGCTCGTGCATTACACCACGCTGCGCACCTCACGGGCAGGACACCATGCTCAAGGCCATGTT
AGCGGCCGCTTGAAGTCTCACAGACGCGGGAGGTTGGGTGCTGATTGACCGGAGTGGCCGCCACTTTG
GCACAATTCTCACTACCTGCGGGACGGGTCCGCTGCCACTGCCTGAGAGTGCCAGAGAATCGGGGAGCT
GCTAGGTGAAGCCGATACTACCTGGTCCAGGGCCTGATTGAAGACTGTCAGCTGGCGCTCAGCAAAAA
AGGGAGAAGCTGTCGCCACTATGCCTCATCCCCACAGTGACATCACCCCGGAAGAGCAGCAGCTCCTGG
CCAGCACCTCCAAGCCTGTGGTGAAGCTTCTACACAACCGCAGTAACAACAAGTACTCTTACACCAGCAC
TTCAGATGACAACCTACTGAAGAATCGAGCTGTTTGACAACTAGCCCTGCGCTTCCATGGGCGGCTG
CTCTTCTCAAGGATGCTCCTAGGAGATGAGATTTGCTGCTGGTCTTTCTACGGGCAGGGCCGAAAAATTG
CCGAGGTGTGCTGTACCTCCATAGTCTATGCTACGGAGAAGAAGCAGACCAAGGTGGAATTCCTGAGGC
TCGGATCTTTGAGGAGACTGAACATCTTAATTTATGAGAATCCCCTGGCCAGATCTCGCTCTCCTG
GAGGCCACAGGGGTGCAGCTGGAGTGGTGGGCAGGCCGAGGGGACGATGAAGAGAACCGAGAGCACC
GTGTCGGAGGATCACGTCCGCCCATATCACCCACGATGAGCGTCCCCACGGCAACAGATTGTCTT
CAAGGAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG204825 representing NM_172747
 Red=Cloning site Green=Tags(s)

MSAEASGPAPAAAECLSPSPSSVEPGSPSYSLKPLTPNSKYVKLVNMGSLHYTTLRTL TGQDTMLKAMF
 SGRVEVLTDAGGWVLIDRSGRHFGTILNLYLRDGSVPLPESARELGELLGEARYYLVOGLIEDCQLALQOK
 REKLSPLCLIPTVTSPREEQQLLASTSKPVVKLLHNRSNNKYSYTSDDNLLKNIELFDKLALRFHGRL
 LFLKDVLDGEICWFSFYQGQRKIAEVCCTSIVYATEKKQTKVEFPEARIFEETLNILIIYENSRGPDALL
 EATGGAAGGGGAGRGDDEENREHRVRRIHVRRHITHDERPHGQQIVFKD

TRTRPLE - GFP Tag - V

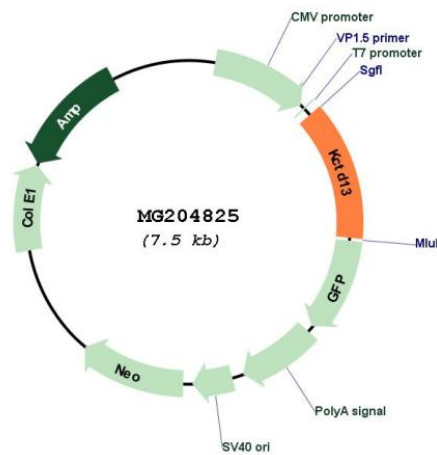
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:



ACCN: NM_172747

ORF Size: 987 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:	<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_172747.2 , NP_766335.1
RefSeq Size:	1654 bp
RefSeq ORF:	990 bp
Locus ID:	233877
UniProt ID:	Q8BGV7
Cytogenetics:	7 F3
Gene Summary:	Substrate-specific adapter of a BCR (BTB-CUL3-RBX1) E3 ubiquitin-protein ligase complex required for synaptic transmission (PubMed:29088697). The BCR(KCTD13) E3 ubiquitin ligase complex mediates the ubiquitination of RHOA, leading to its degradation by the proteasome, thereby regulating the actin cytoskeleton and promoting synaptic transmission (PubMed:29088697).[UniProtKB/Swiss-Prot Function]