

Product datasheet for **MG202907**

Kctd6 (NM_027782) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	Kctd6
Synonyms:	5430433B02Rik; AU044285
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence: >MG202907 representing NM_027782
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGGATAATGGGGACTGGGGCTATATGATGAGTGACCCAGTCACATTAAATGTAGGTGGACACTTGTACA
CGACATCGCTTACCACGTTGACACGCTACCCGGATTCTATGCTTGGAGCTATGTTTGGGGGTGACTTCCC
CACAGCCCAGACCCTCAAGGCAATTAATTGATCGAGACGGACCGCTCTCCGCTATGTCCTTAAC
TTCTACGGACTTCAGAACTGACACTCCCCCTGGACTTAAAGGAGTTTGATCTGCTTCGAAAGAGGCTG
ATTTCTACCAGATCGAACCTTGATTCAAGTGTCTCAATGACCCAGGCCCTGTATCCTATGGATACTTT
TGAAGAAGTCGTAGAGCTGTCTAGCACTCGGAAGCTTTCTAAATATTCCAATCCGGTGGCCGTCATCATC
ACCCAGTTAACCATCACCACAAAGGTCCACTCCTTACTCGAAGGCATCTCAAATATTTACCAAGTGGGA
ATAAGCACATGATGGACACCAGAGACTGCCAGGTCTCCTTACCTTTGGACCGTGGCATTACCACCAGGA
AGTCTCTCTCCGGTCCATCTGATGGAGTACATCACGAAGCAAGTTTACGATCCGCAATACTCGGGTG
CATCATGAGCGAGCGGGCCAATGAGAACACAGTAGAGCACAACCTGGACTTTCTGTAGACTGGCCCGCA
AGACGGACGAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



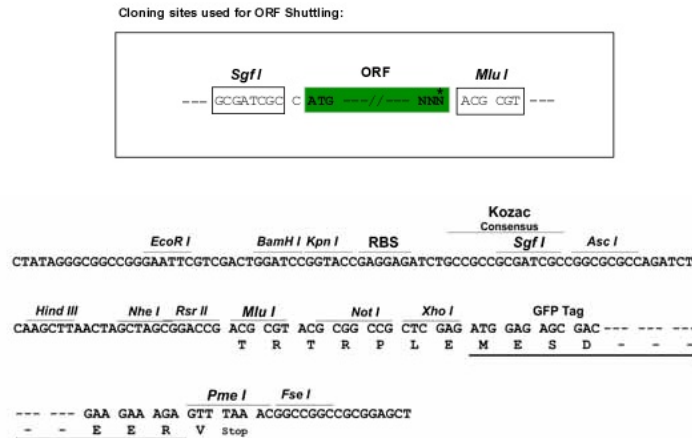
Protein Sequence: >MG202907 representing NM_027782
 Red=Cloning site Green=Tags(s)

MDNGDWGYMMSDPVTLNVGGHLYTTLTRYPDMSLGMFGGDFPTARDPQGNFYIDRDGPLFRYVLN
 FLRTSELTLPDFKEFDLLRKEADFYQIEPLIQCLNDRPLYPMDTFEEVVELSSTRKLSKYSNPVAVII
 TQLTITTKVHSLLEGISNYFTKWNKHMMDRDQCQVSFTFGPCDYHQEVSLRVHLMYITKQGTIRNTRY
 HHMSERANENTVEHNWTFCLARKTDD

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_027782

ORF Size: 711 bp

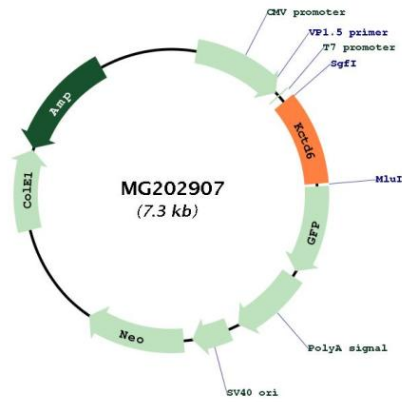
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	<u>NM_027782.3</u> , <u>NP_082058.1</u>
RefSeq Size:	1640 bp
RefSeq ORF:	714 bp
Locus ID:	71393
UniProt ID:	<u>Q8BNL5</u>
Cytogenetics:	14 A1
Gene Summary:	Probable substrate-specific adapter of a BCR (BTB-CUL3-RBX1) E3 ubiquitin-protein ligase complex mediating the ubiquitination and subsequent proteasomal degradation of target proteins. Promotes the ubiquitination of HDAC1; the function seems to depend on KCTD11:KCTD6 oligomerization. Can function as antagonist of the Hedgehog pathway by affecting the nuclear transfer of transcription factor GLI1; the function probably occurs via HDAC1 down-regulation, keeping GLI1 acetylated and inactive. Inhibits cell growth and tumorigenicity of medulloblastoma (MDB). Involved in regulating protein levels of ANK1 isoform Mu7 probably implicating CUL3-dependent proteasomal degradation.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG202907