

Product datasheet for **RG223904**

KCTD8 (NM_198353) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	KCTD8
Mammalian Cell	Neomycin
Selection:	
Vector:	pCMV6-AC-GFP (PSI00010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence: >RG223904 representing NM_198353
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGCATCGC**

ATGGCTCTGAAGGACACGGGCAGCGCGGCAGCACCATCTGCCCATAGCGAGATGGTTTCCTCGTCCA
GCTCGCCCGCGCGTCGGCCGCGCGCCCGGGCCCTGCGCACCTCGCCCTCCCTGAAGTAGTGA
GCTGAACGTAGGCGGCCAGGTTTATGTGACCAAGCACTCGACGCTGCTCAGCGTCCCGGACAGTACTTTG
GCCAGCATGTTCTCGCCCTCTAGTCCCGTGGCGGCGCCCGGCGCGGGGCGAGCTGCCAGGGACAGCC
GGGCGCGCTTCTTCATCGACCGGGACGGCTTCTTTTCAGGTACGTGCTGGATTATCTGCGGGACAAGCA
ACTCGCGTGGCGGAGCACTTCCCCGAGAAGGAGCGGTGCTGCGGAGGCGGAGTATTTCCAGCTCACC
GACTTGGTCAAGCTGCTGTCGCCAAGGTCAACAAGCAGAACTCTCTCAACGACGAGGGCTGCCAGAGCG
ACCTGGAGGACAACGTCTCGCAGGGTAGCAGCAGCGCTGCTGCTGCGCGGGGCGCGGCCCGCTGCC
CTCGGGCCCGGAGCGCACGGTGGTGGCGGCGCGCGCGCAGGACAAGCGCTCGGGCTTCTCACG
CTGGGCTACCGGGCTCTACACCACCGTGCAGCAACAGGCCGACGCCAAATCCGGCGTGTGGCGC
GCATCATGGTGTGCGGGCGCATCGCGCTGGCCAAGGAGGTCTTCGGGGACACGCTCAACGAGAGCCGCGA
CCCCGACCGGCAGCCGGAGAAGTACACGTCCCGCTTCTACCTCAAGTTACCTACTTGGAGCAGGCCTTT
GATCGCCTGTCCGAGGCCGGCTTCCACATGGTGGCGTGAACCTCTCGGACCGCGCCCTTCGTCACCC
AGTACCGGACGACAAGATCTGGAGCAGCTACACCGAGTACATTTCTTCCGACCACCTCAGAAAAATAGT
ATCACCTAAACAAGAACATGAAGATAGGAAACATGACAAAGTCACTGATAAAGGAAGTGAAGTGGGACT
TCCTGTAATGAGCTCTCACTTCCAGTTGTGACAGCCATTAGAGGCAAGCACTCCCGAGGACAACCCAT
CCAGTCCCCAGCAGGCAACAGCTCACCAACCTAACACTTTAACATTGGATCGCCCTCTAAAAAGCACC
TGTACAATGGATACCCCAACGAGCAAAACGAGAAACAGTGAACCTTTTTCAGACCTCATCAGCAAGTCC
CGGGAAACAAATCTGTCCAAAAGAAAGTCTGTGAGAAAGTAAAGTGTGAAGAAAGAAATGAAAAAGTGT
TTCAGGATTTTAAAAAATCCACATTCCAGATTATTTTCCAGAGCGCAACGCCAATGGCAATCTGAAC
GTTGCAGAAGTATGGTTA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



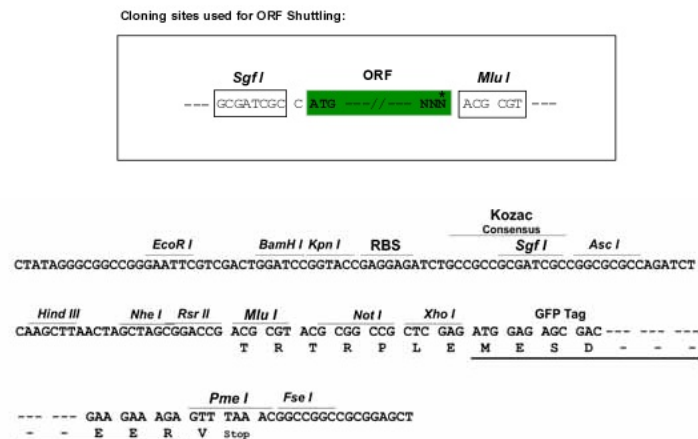
Protein Sequence: >RG223904 representing NM_198353
 Red=Cloning site Green=Tags(s)

MALKDTGSGGSTILPISEMVSSSSPGASAAAAPGPCAPSPFPEVVELNVGGQVYVTKHSTLLSVPDSTL
 ASMFSPSSPRGGARRRGELPRDSRARFFIDRDGFLFRYVLDYLDRKQLALPEHFPEKERLLREAEYFQLT
 DLVKLLSPKVTKQNSLNDEGCQSDLEDNVSQGSDDALLRGAAAAPSGPGAHHGGGGGAQDKRSGFLT
 LGYRGSYTTVRDNQADAKFRRVARIMVCGRIALAKEVFGDTLNESRDPDRQPEKYTSRYLKFITYLEQAF
 DRLSEAGFHMVACNSSGTAAFVNQYRDDKIWSSYTEYIFFRPPQKIVSPKQEHEDRKHKVTDKGSSEGT
 SCNELSTSSCDSEASTPQDNPSAQAATAHQPNLTLDRPSKKAPVQWIPPPDKRRNSELFQTLISK
 RETNLKKKVCCKLSVEEEMKKCIQDFKKIHIPDYFPERKRWQSELLQKYGL

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_198353

ORF Size: 1419 bp

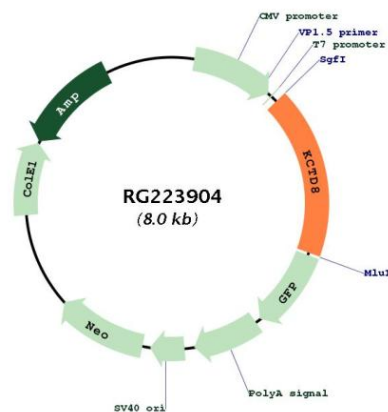
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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:	<u>NM_198353.3</u>
RefSeq Size:	2240 bp
RefSeq ORF:	1422 bp
Locus ID:	386617
UniProt ID:	<u>Q6ZWB6</u>
Cytogenetics:	4p13
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 (By similarity). [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RG223904