

Product datasheet for **RG221607**

KCTD20 (NM_173562) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	KCTD20 (NM_173562) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	KCTD20
Synonyms:	C6orf69; dj108K11.3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG221607 representing NM_173562 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAATGTTCCCGTGGCAGTGACAGTGACAGGTTATTGCGGCAGGAGGCCAGCTGCTTAGTGGATGATA
CTTTAGCTGTAGCCCAAGAAAAAGAAGCAAACAGCCTGGCTTCATCTGGTCCTCATAATCTTACTTATCC
TCTAGGTCCCAGGAATGAAGACCTCTCACTTGACTATGCCTCTCAGCCAGCAAATCTTCAGTTCCTCAC
ATAATGCCCTTGCTGAAGACATCAAAGTTCTTGCTTCAAAGTGGGAATAAACGGAACCATGAACCTT
TTATTGCTCCAGAAAGATTTGGAACAGTAGTGTGGGCTTGGCAGTAATCCCATTCCAAGCACCAGA
GAAAGTGACGCTTCTGTAGATGGCACAGTTTTGTTGTGAATCCACAGATTTTCACTGCTCATCCGGAT
ACCATGCTGGGAAGGATGTTGGACCAGGAAGAGAGTACAACCTCACTCGGCCAATGAGAAGGGAGAGT
ATGAGATTGCTGAAGGCATCAGTGCAACTGATTTTCGCACAGTGTGGATTATTACAAAACCGGTATCAT
CAATTGTCCTGATGGCATCTCTATCCCAGATCTTAGAGATACTTGTGATTATCTCTGCATTAATTTTAC
TTCAACACTATCCGATGTCAAGATCTGAGTGCTTACTCCATGAAGTGTCTAATGACGGTGTCTATAAGC
AGTTTGATCACTACCTCGAAGAGCTCATTTGCCCATCATGGTGGGCTGTGCCAAGAAAGGAGAACGAGA
GTGCCACATTGTTGTGCTGACGGATGAGGATTCTGTGGACTGGGATGAAGACCACCCTCCACCAATGGGG
GAGGAATATCCCAAATCTTTATAGCTCCAAGCTCTACAGATCTTCAAATATATTGAGAAATAGGGATG
TTGCAAAAACAGTGTAAAGGAACGGGGCTAAAAAACATTTCGATTGGAATTGAAGTTACCCTACCTG
TAAAGAAAAAATTAAGAGAAGGCCTGGCGCGGCTCTGAAGTCATCTATAATTATGTACAACGCCCTTTC
ATCCAGATGTCATGGGAAAAGGAAGAAGGGAAGAGTCGCCATGTGGATTCCAGTGTGTTCAAGCAAAT
CCCTCACGAATCTGGTAGCTGCTGGAGATGATGCTTGGAGGACCAGGAGATTAATGCATCACCACC
CCAAGTGGATGAAGTACCGGCTAAATGCCCCACTTTCTCAGATGGCTTCTAACGACTTTCAGGAT

ACGGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG221607 representing NM_173562
 Red=Cloning site Green=Tags(s)

MNVHRGSDSDRLLRQEASCLVDDTLAVAQEQEANSCLASSGPHNLTYPLGPRNEDLSLDYASQPANLQFPH
 IMPLAEDIKGSFCFQSGNKRNHPEPIAPERFGNSSVGFSGNSHSQAPEKVTLLVDGTRFVVNPQIFTAHPD
 TMLGRMFGPGREYNFTRPNEKGEYEIAEGISATVFRTVLDYYKTGIINCPDGISIPDLRDTCDYLCINF
 FNTIRCQDL SALLHEL SNDGAHKQFDHYLEELILPIMVGC AKKGERECHIVVLTDEDSVDWDEDHPPPMG
 EEYSQILYSSKLYRFKYIENRDVAKTVLKERGLKNIRIGIEGYPTCKEIKRRPGRSEVIYNYVQRPF
 IQMSWEKEEGKSRHVDFQCVRSKSLTNLVAAGDDVLEDQEILMHHPQVDELDRLNAPLSQMASNDFQD

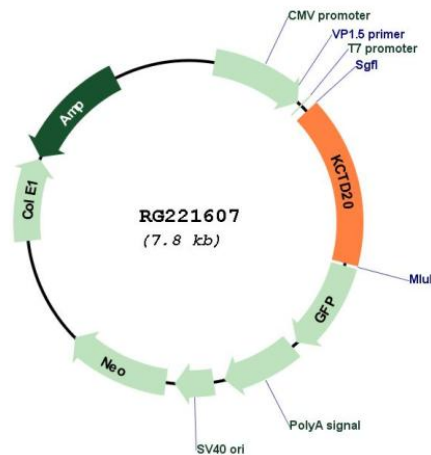
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_173562

ORF Size:	1257 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_173562.5
RefSeq Size:	5032 bp
RefSeq ORF:	1260 bp
Locus ID:	222658
UniProt ID:	Q7Z5Y7
Cytogenetics:	6p21.31
Protein Families:	Druggable Genome, Ion Channels: Other
Gene Summary:	Promotes the phosphorylation of AKT family members.[UniProtKB/Swiss-Prot Function]