

Product datasheet for **RG215452**

KCTD3 (NM_016121) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	KCTD3
Synonyms:	NY-REN-45
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



ORF Nucleotide Sequence: >RG215452 representing NM_016121
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGGCGGGAGGGCACTGCGGCAGCTTCCCCGGCGGGCGGCCGGCAGCGGCGAGATCGTCCAACGAACG
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 GATAATGATCTTCTGTAACGAAGTGTATCATGATCCTTCAAATGATGCTATTACTGCTGTGAGTGTTC
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ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG215452 representing NM_016121

Red=Cloning site Green=Tags(s)

MAGGHCGSFPAAGSGEIVQLNVGGTRFSTSRQTLMWIPDSFFSSLLSGRISTLRDETGAIFIDRDPAA
FAPILNFLRTKELDLRGVSINVLREAEFYGITPLVRRLLLCEELERSSCGSVLFHGYLPPPGIPSRKIN
NTVRSADSRNGLNSTEGEARGNGTQPVLSGTGEETVRLGFPVDPKVLIVAGHHNWIVAAYAHFAVCYRI
KESSGWQQVFTSPYLDWTIERVALNAKVGGPHGDKDKMVAVASESSIILWSVQDGGSGSEIGVFSLGVP
VDALFFIGNQLVATSHTGKVGWNAVTQHWQVQDVVPITSYDTAGSFLLGNCNGSIYYIDMQKFLRMK
DNDLLVTELYHDPNDAITALSVYLPKTSVSGNWIEIAYGTSSGAVRVIVQHPETVSGPQLFQTFTVH
RSPVTKIMLSEKHLVSCADNNHVRTWTVTRFRGMISTQPGSTPLASFILSLEETESHGSSYSGNDIGP
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QLQHDDTTHEAATYGSMRPYRESPLLARARRTESFHSYRDFQITNLNRNVERAVPENGNLGPIQAEVKGA
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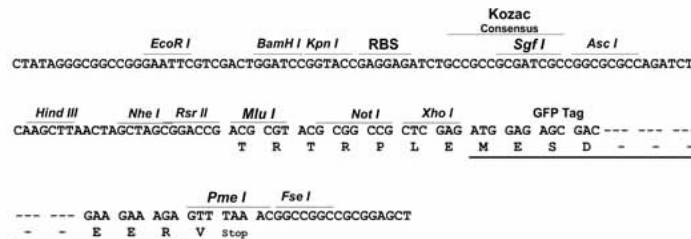
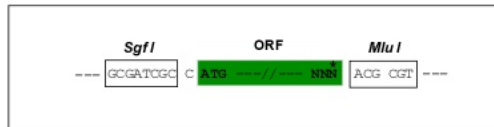
TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



ACCN:

NM_016121

ORF Size:

2445 bp

OTI Disclaimer:

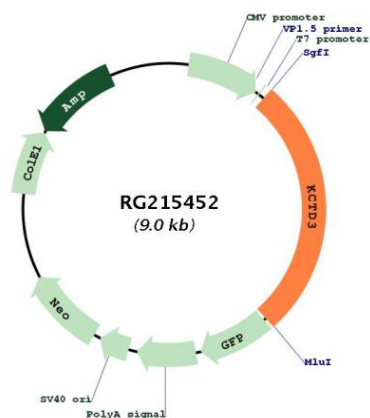
The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in 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_016121.5
RefSeq Size:	3946 bp
RefSeq ORF:	2448 bp
Locus ID:	51133
UniProt ID:	Q9Y597
Cytogenetics:	1q41
Domains:	BTB, WD40, K_tetra
Gene Summary:	This gene encodes a member of the potassium channel tetramerization-domain containing (KCTD) protein family. Members of this protein family regulate the biophysical characteristics of ion channels. In mouse, this protein interacts with hyperpolarization-activated cyclic nucleotide-gated channel complex 3 and enhances its cell surface expression and current density. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Feb 2016]

Product images:



Circular map for RG215452