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Product datasheet for MG202806

Kctd11 (NM_153143) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Kctd11 (NM_153143) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Kctd11
Synonyms:	AF465352; Ren
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence:

>MG202806 representing NM_153143
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGCTGGGGGCCATGTTTAGGGCTGACACCCTAATGCCAGCCAACCTTAACCCGCAAGGAGATGGCCATT
ACTTCATCGACAGGGATGGCAAGGCTTTCCGGCACATCCTCAATTTTTTGCGGCTAGGCCGTCTGGACCT
GCCCCGTGGGTACGGAGAAACTGCCCTTCTTAAGGCAGAGGCTGACTTCTACCAGATCCGGCCCCTCCTG
GATGCCCTGCGGGAATTGGAAGCCTCTCGGGGTACACCTGCATCCACAGCCGCCCTACTCCATGCAGATG
TAGATGTCAGCCCCCGCCAGGTGCACTTCTCCGCTCGAAGGGGCCCCCACCACTATGAGCTGAGCTCTGT
CCAGGTGGACACCTTCCGAGCCAACCTCTTCTGCACTGACCCTGAGTGTCTGGCTGCCATGCGCAACAGA
TTTGGTGTGGCCATTGGGGACAGGGCAGAAGGAGGTCCACATTTTCGGCTAGAGTGGGCCTCCCGCCCCC
AGGAACTCCCTGAAGTAGAGTATCAAAGACTGGGGCTGCAGCCACTGTGGACTGGGGGGCCAGAAGATCG
TCGGGAGGTAGCGAACACGCCTACATTCCTGGAGGAGGTGCTACGGGTGGCTCTGGAACATGGCTTCCGC
CTGGACTCTGTCTTCCCAGACCCTGAAGACCTTCTGAACTCTAGATCCTTGCGCTTTGTGCGCCAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

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Protein Sequence:

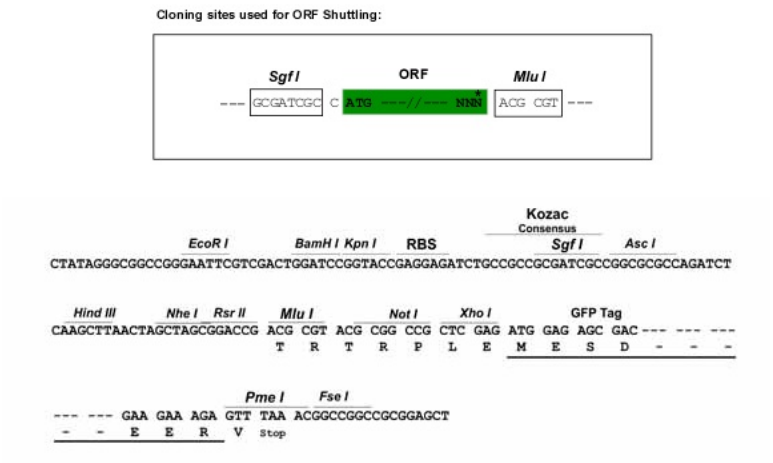
>MG202806 representing NM_153143
Red=Cloning site Green=Tags(s)

MLGAMFRADTLMPANLNPQGDGHYFIDRDGKAFRHILNFLRLGRLDLPRGYGETALLKAEADFYQIRPLL
DALRELEASRGTPASTAALLHADVDVSPRQVHFSARRGPHHYELSSVQVDTFRANLFCTDPECLAAMRNR
FGVAIGDRAEGGPHFRLEWASRPQELPEVEYQRLGLQPLWTGGPEDRREVANTPTFLEEVLRVALEHGFR
LDSVFPDPEDLLNSRSLRFVRH

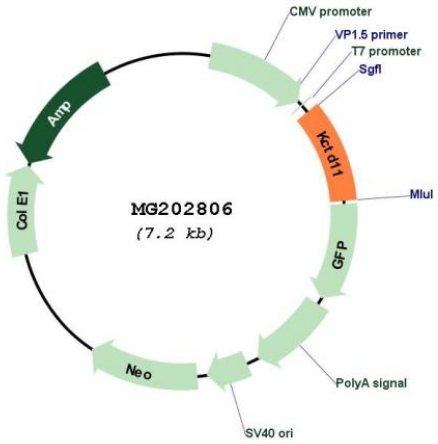
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_153143

ORF Size: 696 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.
RefSeq:	NM_153143.4, NP_694783.1
RefSeq Size:	2740 bp
RefSeq ORF:	699 bp
Locus ID:	216858
UniProt ID:	Q8K485
Cytogenetics:	11 B3
Gene Summary:	Plays a role as a marker and a regulator of neuronal differentiation; Up-regulated by a variety of neurogenic signals, such as retinoic acid, epidermal growth factor/EGF and NGFB/nerve growth factor. Induces apoptosis, growth arrest and the expression of cyclin-dependent kinase inhibitor CDKN1B. Plays a role as a tumor repressor and inhibits cell growth and tumorigenicity of medulloblastoma (MDB). Acts as probable substrate-specific adapter for a BCR (BTB-CUL3-RBX1) E3 ubiquitin-protein ligase complex towards HDAC1. Functions as antagonist of the Hedgehog pathway on cell proliferation and differentiation by affecting the nuclear transfer of transcription factor GLI1, thus maintaining cerebellar granule cells in undifferentiated state, this effect probably occurs via HDAC1 down-regulation, keeping GLI1 acetylated and inactive. When knock-down, Hedgehog antagonism is impaired and proliferation of granule cells is sustained. Activates the caspase cascade.[UniProtKB/Swiss-Prot Function]