

Product datasheet for **RG204261**

KTI12 (NM_138417) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: KTI12 (NM_138417) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: KTI12
Synonyms: SBB181; TOT4
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG204261 representing NM_138417
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCCGCTCGTGGTGTTTTGCGGGCTGCCGTACAGCGGCAAGAGCCGGCGTGCTGAAGAGTTGCGCGTGG
CGCTGGCTGCCGAGGGCCGCGCGGTGTACGTGGTGGACGACGCAGCTGTCCTGGGCGCAGAGGACCCAGC
GGTGTACGGCGATTCTGCCCGTGAGAAGGCATTGCGTGGAGCTCTGCGAGCCTCCGTGGAACGGCGCCTG
AGTCGCCACGACGTGGTCATCCTGGACTCGTTAACTACATCAAAGGTTCCGTTACGAGCTCTACTGCC
TGGCACGGGCGGCGGCACCCCGCTCTGCCTGGTCTACTGCGTACGGCCCGCGGCCGATCGCGGGACC
TCAGGTGGCGGGCGCAACGAGAACCCTGGCCGGAACGTCAAGTGTGAGTTGGCGGCCACGCGCTGAGGAG
GACGGGAGAGCCAGGCGGGCGGAGCAGCGTCTCAGGGAAGTGCATACTGCGGACTCTGTAGTAAATG
GAAGTGCCAGGCGGACGTACCCAAGGAAGTGGAGCGAGAAGAATCCGGGGCTGCGGAGTCTCCAGCTCT
TGTGACTCCGGATTACAGAGAAATCTGCAAAGCATGGGTCCGGTGCCTTTACTCTCCCGAACTCCTGGAG
GCCCTAACGCTGCGCTTTGAGGCTCCCGATTCTCGGAATCGTGGGACCGGCCTTTATCACTTTGGTGG
GCCTAGAGGAGCGGTTGCCCTGGCGGGATCCGCTCTGCCCTGTTTGAGAACGGGGCCCCACCACCCCA
TCAGTCTACGCAGTCCCAGCCCCCTCGCTCCGGCAGCTTCTGCACCAGTTGGACCAGGTCACGAGTCAA
GTACTGGCCGATTGATGGAAGCGCAGAAGAGCGCTGTCCCGGGGACTTGCTCACGCTTCTGGTACCA
CAGAGCACTTGGGTTTACCCGGCCCTTGACCATGGCAGAACTGAGTCGCCTTCGTCGCCAGTTTATTTC
GTACACTAAAATGCATCCCAACAATGAGAACTTGCCGCAACTGGCCAACATGTTTCTTCAGTATTTGAGC
CAGAGCTGCAC

ACGCGTACGCGGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG204261 representing NM_138417
Red=Cloning site Green=Tags(s)

MPLVVFGLPYSGKSRRAEELRVALAAEGRAVVVDDA AVLGAEDPAVYGDSAREKALRGALRASVERRL
 SRHDVVILD SLNYIKGFRYEL YCLARAARTPLCLVYCVRPGPIAGPQVAGANENPGRNVSWSWRPRAEE
 DGRAQAAGSSVLRHTADSVVNGSAQADVPKELEREESGAAESPALVTPDSEKSAKHGSGAFYSPELLE
 ALTLRFEAPDSRNRWDRPLFTLVGLEEPLPLAGIRSALFENRAPPHPQSTQSQPLASGSFLHQLDQVTSQ
 VLAGLMEAQKSAVPGDLLTLPGTTEHLRFTRPLTMAELSRRLRRQFISYTKMHPNNENLPQLANMFLQYLS
 QSLH

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_138417

ORF Size: 1062 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_138417.3](#)

RefSeq Size: 1712 bp

RefSeq ORF: 1065 bp

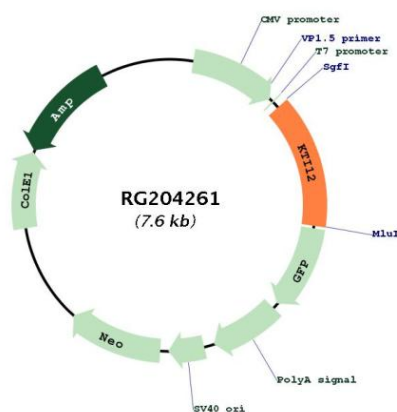
Locus ID: 112970

UniProt ID: [Q96EK9](#)

Cytogenetics: 1p32.3

Protein Families: Druggable Genome

Product images:



Circular map for RG204261