

Product datasheet for **RG208887**

KRTCAP2 (NM_173852) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: KRTCAP2 (NM_173852) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: KRTCAP2
Synonyms: KCP2
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG208887 representing NM_173852
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGCGCATAGCTAACCGCACCCGGTTCAGCTCGCCTTTCTTGGCCAGAGGCGCCGGTTGGACTCACGGGC
 GGGGCATGATGGTGGGTACGGTCACCTCGCTGGCGCTCTCCTCCCTCTGTCCCTGTCTTTGC
 TGGGATGCAGATGTACAGCCGTACAGCTGGCCTCCACCGAGTGGCTCACCATCCAGGGCGCCCTGCTTGGT
 TCGGGTCTTTCGTGTTCTCGCTACTGCCTTCAATAATCTGGAGAATCTGTCTTTGGCAAAGGATTCC
 AAGCAAAGATCTCCCTGAGATTCTCCTCTGCCTCCTGTTGGCTCTCTTGCATCTGGCCTCATCCACCG
 AGTCTGTGTACCACCTGCTTCACTTCTCCATGGTTGGTCTGTACTACATCAACAAGATCTCCTCCACC
 CTGTACCAGGCAGCAGCTCCAGTCTCACACCAGCCAAGGTCACAGGCAAGAGCAAGAAGAGAAAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG208887 representing NM_173852
 Red=Cloning site Green=Tags(s)

MRIANRTRFSSPFLARGAGWTHGRGMMVGTVTSLLSLLSLLLFAGMQMYSRQLASTEWLTIQGGLLG
 SGLFVFSLTAFNNLENLVFGKGFQAKIFPEILLCLLLALFASGLIHRVCVTTFCIFSMVGLYYINKISST
 LYQAAAPVLTAKVTGKSKKRN

TRTRPLE - GFP Tag - V

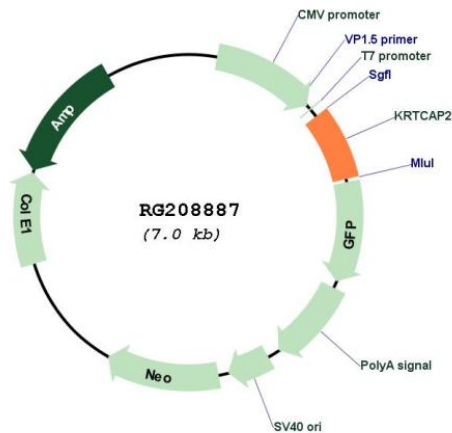
Restriction Sites: Sgfl-MluI



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Cloning Scheme:

Cloning sites used for ORF Shutting:


Plasmid Map:

ACCN: NM_173852

ORF Size: 486 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:	<u>NM_173852.3, NP_776251.1</u>
RefSeq Size:	577 bp
RefSeq ORF:	411 bp
Locus ID:	200185
UniProt ID:	<u>Q8N6L1</u>
Cytogenetics:	1q22
Protein Families:	Transmembrane
Gene Summary:	Subunit of the oligosaccharyl transferase (OST) complex that catalyzes the initial transfer of a defined glycan (Glc(3)Man(9)GlcNAc(2) in eukaryotes) from the lipid carrier dolichol-pyrophosphate to an asparagine residue within an Asn-X-Ser/Thr consensus motif in nascent polypeptide chains, the first step in protein N-glycosylation. N-glycosylation occurs cotranslationally and the complex associates with the Sec61 complex at the channel-forming translocon complex that mediates protein translocation across the endoplasmic reticulum (ER). All subunits are required for a maximal enzyme activity (PubMed:22467853). May be involved in N-glycosylation of APP (amyloid-beta precursor protein). Can modulate gamma-secretase cleavage of APP by enhancing endoproteolysis of PSEN1 (PubMed:21768116). [UniProtKB/Swiss-Prot Function]