

Product datasheet for **MG202511**

Krtcap2 (BC043030) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Krtcap2 (BC043030) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Krtcap2
Synonyms:	0610010I12Rik; Kcp2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG202511 representing BC043030 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAGTGCAGCTTGTCAGAGAGACAGCAGATGCCTTGGCTACAGAAGGCTGGAGACCAAGCAGGGCGGT
GGCCTAGAATGCTCTTAGAAGCATTATTTCTCCTTGCCACAAGAGGGCGCTGCACCCAAGGCGCTAGA
GGAAGAAGTAAAGCAAGTCCACGTTGGCCCCGACGCCTGCGTACAGACAACCGCGCCGGCTTTGGCTCCC
CTCTTTCTCCAGGACACGGATTGGACCACGGACGGGGCGTGATGGTAGTCGGTACCGGGACCTCCTTGG
CGCTGTCTCCCTCCTGTCCCTGCTCTTCGCTGGCATGCAGATCTACAGCCGCCAGCTGGCCTCCAC
CGAGTGGCTCACCATTCAGGGGGCCTGCTGGGCTCCGGCCTTTTCGCTCTCTCCCTGACTGCCTTCAAT
AATCTGGAGAATCTGGTCTTTGGTAAAGGCTTCCAAGCAAAAATCTTCCCTGAGATTCTCCTCTGCTTGG
TGTTGGCGCTCTTTGCCTCCGGCCTCATCCACCGAGTTTGTGTACCACCTTGCTTCATCTTCCATGGT
TGGTCTGTACTACATCAACAAGATATCGTCCACTCTGTACCAGGCAACAGCTCCAGTTCTCACACCGGCC
AAAATCACTGGCAAGGGCAAGAAGAGAAAC

ACGCGTACGCGGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG202511 representing BC043030
 Red=Cloning site Green=Tags(s)

MSAACPERQQMPWLQKAGDQAGRWRMLLEALFPPCHKRALHPRRVEEVKQVHVGPDACVQTTAPALAP
 LFLQGHGLDHGRGVMVVGTTSLALSSLLSLLLFAGMQIYSRQLASTEWLTIQGGLLGSGLFVFSLTAFN
 NLENLVFGKGFQAKIFPEILLCLLLALFASGLIHRVCVTTTCFIFSMVGLYYINKISSTLYQATAPVLT
 PAKITGKGGKRN

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: BC043030

ORF Size: 662 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: [BC043030](#), [AAH43030](#)

RefSeq Size: 1010 bp

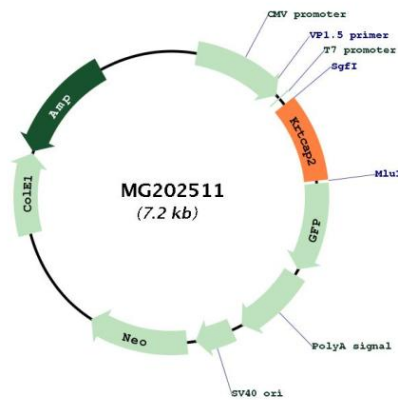
RefSeq ORF: 662 bp

Locus ID: 66059

Cytogenetics: 3 F1

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. May be involved in N-glycosylation of APP (amyloid-beta precursor protein). Can modulate gamma-secretase cleavage of APP by enhancing endoproteolysis of PSEN1.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG202511