

## Product datasheet for MR200828

### Krtcap2 (NM\_025327) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Krtcap2 (NM\_025327) Mouse Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** Krtcap2  
**Synonyms:** 0610010I12Rik; Kcp2  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**ORF Nucleotide Sequence:** >MR200828 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGTAGTCGGTACCGGGACCTCCTTGGCGCTGCTCCTCCCTCCTGTCCCTGCTGCTCTTCGCTGGCATGC  
 AGATCTACAGCCGCCAGCTGGCTCCACCGAGTGGCTCACCATTAGGGGGCCTGCTGGCTCCGGCT  
 TTTGCTTCTCCCTGACTGCCTCAATAATCTGGAGAATCTGGTCTTTGGTAAAGGCTTCCAAGCAAAA  
 ATCTCCCTGAGATTCTCCTCTGCTTGTGTTGGCGCTCTTGCCTCCGGCTCATCCACCGAGTCTGTG  
 TCACCACTTGCTTCATCTTCCATGGTTGGTCTGTACTACATCAACAAGATATCGTCCACTCTGTACCA  
 GGCAACAGCTCCAGTTCTCACACCGCCAAAATCACTGGCAAGGCAAGAAGAGAAAC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >MR200828 protein sequence  
 Red=Cloning site Green=Tags(s)  
 MVVGTGTSLALSSLLSLLLFAGMQIYSRQLASTEWLTIQGGLLGSLFVFSLTAFNNLENLVFGKGFQAK  
 IFPEILLCLLLALFASGLIHRVCVTTTCIFSMVGLYYINKISSTLYQATAPVLTAKITGKGGKRN

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** Sgfl-MluI



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**Cloning Scheme:**


**ACCN:** NM\_025327

**ORF Size:** 411 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\\_025327.1](#), [NM\\_025327.2](#), [NM\\_025327.3](#), [NP\\_079603.1](#)

**RefSeq Size:** 516 bp

**RefSeq ORF:** 411 bp

**Locus ID:** 66059

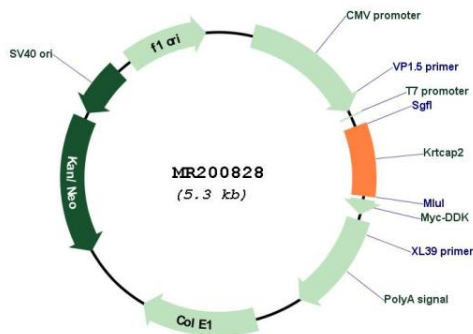
UniProt ID: [Q5RL79](#)

Cytogenetics: 3 F1

MW: 14.7 kDa

**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 MR200828