

Product datasheet for **MR222836**

Krt18 (NM_010664) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Krt18 (NM_010664) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Krt18
Synonyms:	CK18; K18; Krt1-18
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR222836 representing NM_010664
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAGTTCACAACCTCGCTCCACCACCTTCTCCACCAACTACCGTCCCTGGGCTCTGTGCGAACTCCCA
 GCCAGCGGGTCCGGCCTGCCAGCAGCGCAGCCAGCGTCTATGCAGGTGCTGGGGCTCCGGTCCCGGAT
 ATCCGTGTCCCGCTCTGTCTGGGTGGCTCTGTGGGTCCGCAGGCCCTGGCGGGAATGGTGGAATCCAG
 ACCGAGAAGGAGACCATGCAAGACCTGAACGATCGCTGGCCAGCTACCTAGACAAGGTGAAGAGCTGG
 AAAGTGAAGACAGGAGACTGGAGAGCAAATCCGGGAACATCTGGAGAAGAAGGGGCCCAAGGGCTCAG
 AGACTGGGGCCACTACTCAAGATCATCGAAGACCTGAGGGCTCAGATCTTTGCGAATTCTGTGGACAAT
 GCCCGCATCGTCTGCAGATCGACAATGCCCGCTTCCCGCCGATGACTTTAGAGTCAAGTATGAGACAG
 AACTAGCCATGCGCCAGTCTGTGGAGAGCGACATCCATGGACTCCGCAAGGTGGTATGACACCAACAT
 CACAAGGCTGCAGCTGGAGACAGAAATCGAGGCACTCAAGGAAGAAGTCTGTTTCATGAAGAAGAATCAT
 GAAGAGGAAGTCCAAGGTCTGGAAGCCAGATTGCCAGCTCTGGATTGACTGTGGAAGTGGATGCCCCCA
 AATCTCAGGACCTCAGCAAGATCATGGCGGACATCCGCGCCAGTATGAAGCGCTGGCTCAGAAGAACCG
 CGAGGAACTGGACAAGTACTGGTCTCAGCAGATTGAGGAGAGTACCACAGTTGTACCACCAAGTCTGCC
 GAAATCAGGGACGCTGAGACCACACTCACGGAGCTGAGACGCACCCTCCAGACCTTGAGATTGACTTGG
 ACTCCATGAAAAACCAGAACATCAACTTGGAGAACAGCCTCGGGGATGTGGAGGCCCGATACAAGGCACA
 GATGGAGCAGTCAATGGGGTCTTCTGCATCTGGAGTCAAGCTGGCACAAGTCCGGCCAGAGGGCCAG
 CGCCAGGCCAGGAATATGAAGCCCTCTGAACATCAAGGTGAAGCTTGGAGCAGAGATTGCCACCTACC
 GCCGCTTGCTGGAGGATGGAGAAGATTCAGTCTCAACGATGCCCTGGACTCCAGCAACTCCATGCAAAAC
 TGTGCAGAAGACAACACTACCCGTAAGATCGTGGATGGCAGAGTGGTGTCCGAGACTAATGACACCAGAGTT
 CTGAGGCAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR222836 representing NM_010664
 Red=Cloning site Green=Tags(s)

MSFTTRSTTFSTNYRSLGSRVTPSQRVRPASSAASVYAGAGGSGSRISVSRVWGGSVGSAGLAGMGGIQ
 TEKETMQDLNDRLASYLDKVKSLETENRRLESKIREHLEKKGPGQVRDWHYFKI IEDLRAQIFANSVDN
 ARIVLQIDNARLAADDFRVKYE TELAMRQSVESDIHGLRKYVDDTNI TRLQLETEIEALKEELLFMKKNH
 EEEVQGLEAQIASSGLTVEVDAPKSQLSKIMADIRAQYEALAQKNREELDKYWSQIEESTTVVTTKSA
 EIRDAETTL TELRRTLQLEIDLDSMKNQINLENLGDVEARYKAQMEQLNGVLLHLESELAQTRAEGQ
 RQAQYEALLNIKVKLEAEIATYRRLLEDGEDFSLNDALDSSNSMQTVQKTTTRKIVDGRVYVSETNDRV
 LRH

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mm9034_g05.zip

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_010664

ORF Size: 1269 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_010664.2](#), [NP_034794.2](#)

RefSeq Size: 1400 bp

RefSeq ORF: 1272 bp

Locus ID: 16668

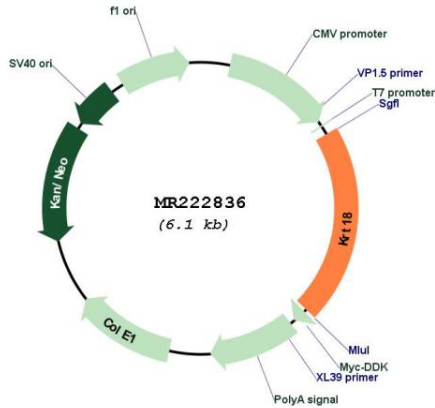
UniProt ID: [P05784](#)

Cytogenetics: 15 57.22 cM

MW: 48 kDa

Gene Summary: When phosphorylated, plays a role in filament reorganization. Involved in the delivery of mutated CFTR to the plasma membrane. Involved in the uptake of thrombin-antithrombin complexes by hepatic cells (By similarity). Together with KRT8, is involved in interleukin-6 (IL-6)-mediated barrier protection.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR222836