

Product datasheet for **MG222836**

Krt18 (NM_010664) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Krt18 (NM_010664) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Krt18
Synonyms:	CK18; K18; Krt1-18
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG222836 representing NM_010664 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAGTTCACAACCTCGCTCCACCACCTTCTCCACCAACTACCGGTCCCTGGGCTCTGTGCGAACTCCCA
GCCAGCGGGTCCGGCTGCCAGCAGCGCAGCCAGCGTCTATGCAGGTGCTGGGGCTCCGGTCCCGGAT
ATCCGTGTCCCGCTCTGTCTGGGTGGCTCTGTGGGTCCGCAGGCTGGCGGAATGGGTGGAATCCAG
ACCGAGAAGGAGACCATGCAAGACCTGAACGATCGCTGGCCAGTACCTAGACAAGGTGAAGAGCTGG
AAACTGAGAACAGGAGACTGGAGAGCAAAATCCGGAACATCTGGAGAAGAAGGGGCCCCAGGGCTCAG
AGACTGGGGCCACTACTTCAAGATCATCGAAGACCTGAGGGCTCAGATCTTTCGCAATCTGTGGACAAT
GCCCGCATCGTCTTGAGATCGACAATGCCCGCTTGCCGCCGATGACTTTAGAGTCAAGTATGAGACAG
AACTAGCCATGCGCCAGTCTGTGGAGAGCGACATCCATGGACTCCGCAAGGTGGTAGATGACACCAACAT
CACAAGGCTGCAGCTGGAGACAGAAATCGAGGCACTCAAGGAAGAATCTGTTCATGAAGAAGAATCAT
GAAGAGGAAGTCCAAGTCTGGAAGCCAGATTGCCAGCTCTGGATTGACTGTGGAAGTGGATGCCCCA
AATCTCAGGACCTCAGCAAGATCATGGCGGACATCCGCGCCAGTATGAAGCGCTGGCTCAGAAGAACC
CGAGGAAGTGGACAAGTACTGGTCTCAGCAGATTGAGGAGAGTACCACAGTTGTACCACCAAGTCTGCC
GAAATCAGGGACGCTGAGACCACACTCAGGAGCTGAGACGCCCTCCAGACCTTGGAGATTGACTTGG
ACTCCATGAAAAACCAGAACATCAACTTGGAGAACAGCCTCGGGGATGTGGAGGCCGATACAAGGCACA
GATGGAGCAGCTCAATGGGTCTTCTGCATCTGGAGTCAAGGCTGGCACAAACTCGGGCAGAGGCCAG
CGCCAGGCCAGGAATATGAAGCCCTTGAACATCAAGGTGAAGCTTGGAGCAGAGATTGCCACCTACC
GCCGCTTGTGGAGGATGGAGAAGATTTAGTCTCAACGATGCCCTGGACTCCAGCAACTCCATGCAAA
TGTGCAGAAGACAACCTACCCGTAAGATCGTGGATGGCAGAGTGGTGTCCGAGACTAATGACACCAGATT
CTGAGGCAC

ACCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG222836 representing NM_010664
Red=Cloning site Green=Tags(s)

MSFTTRSTTFSTNYRSLGSRTPSQRVRPASSAASVYAGAGGSGSRSISVSRVWGGSVGSAGLAGMGGIQ
 TEKETMQDLNDRLASYLKVKSLTENRRLESKIREHLEKKGPGQVRDWHYFKIIEDLRAQIFANSVDN
 ARIVLQIDNARLAADDFRVKYETELAMRQSVESDIHGLRKVVDDTNITRLQLETEIEALKEELLFMKKNH
 EEEVQGLEAQIASSGLTVEVDAPKSQLSKIMADIRAQYEALAQKNREELDKYWSQQIEESTTVVTTKSA
 EIRDAETTLTELRRTLQLEIDLDSMKNQINLENSLGDVEARYKAQMEQLNGVLLHLESELAQTRAEGQ
 RQAQYEYEAALLNIKVKLEAEIATYRRLLEDGEDFSLNDALDSSNSMQTVQKTTTRKIVDGRVVSETNDRV
 LRH

TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

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

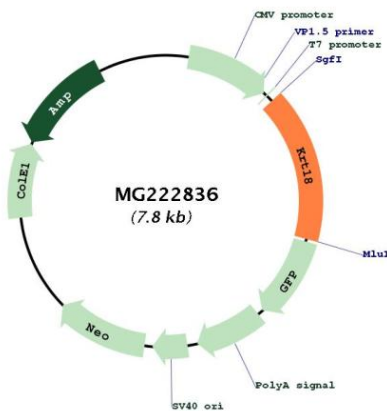
Locus ID: 16668

UniProt ID: [P05784](#)

Cytogenetics: 15 57.22 cM

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 MG222836