

## Product datasheet for **MR209059**

### Tkfc (NM\_145496) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Tkfc (NM_145496) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Tkfc
Synonyms:	BC021917; Dak
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

**ORF Nucleotide Sequence:**

>MR209059 representing NM\_145496  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGAGTCCAAGAAGATGGTGAATTCTGTGGAAGGGTGTGCTGATGATGCCCTTGTGGGTTAGTAGCCT  
 CTAAACCCTGACTTGCAGCTCCTGCAAGGCACCGTGTGGCCCTACGTTCTGACCTGGACACCCTCAAGGG  
 CCGGGTAGCACTTCTGTAGGTGGAGGCTCAGGCCATGAGCCTGCCATGCCGTTTTATCGGAAAGGG  
 ATGCTAACAGGTGTCATCGCAGGATCTGTGTTGCCTCTCCTCCTGTGGGCAGCATCTGGCAGCCATTA  
 GAGCTGTGGCCAGGCAGGCACAGTGGGCACCCTCCTCATTGTGAAGAACTACACTGGGGATCGGCTCAA  
 CTTTGGACTTGCCATGGAGCAGGCCAAGGCCGAGGGCATCTCTGTGGAGATGGTGAAGTTGAGGATGAC  
 AGTGCCTTACCCTCCTCAAGAAGGCAGGCCGGCGTGGCCTGTGTGCACAGTACTTATCCACAAGGTGG  
 CAGGTGCTCTGGCTGAGGAAGGAATGGGCTGGAGGAGATCACAAGAGGGTGAAGCGTATCGCCAAGAC  
 CATGGGTACCCTAGGGGTGAGCTTGTCTCCTGCAGTGTCCCTGGCGCCACACACCTTTGAGCTTGCA  
 GCTGATGAAATAGAGCTAGGCCTGGGGATCCATGGGGAAGCTGGTGTTCGTCGGATAAAGATAGCACCTG  
 TTGATCAGATTGTCACTTTATGCTTGACCACATGACAAAACCTCCAATATATTTTCATGTGCCTGTACG  
 GTCAGGCTCTTCACTGGTGTGATAGTCAACAATCTGGGTGGCCTGTCTTTCCTGGAAGTGGGCATCATA  
 GCTGATGCTGCCATACGCTTGTGGAGGGCCGTGGAGTGAAGGTGCGCCGTGCCCTGGTGGGCACCTTCA  
 TGTGAGCGCTGGAGATGCCTGGTGTGTCTTACTTTGATGCTTGTGGATGAACCCGTGCTGAAGCTAAT  
 AGATGCTGAACTACTGAAAAGCCTGGCCTCACATGGCCAAGGTCTCTGTGACTGGGAGGAAGCGGATT  
 CGGGCAGCTCCCACAGAGCCTCCAGAAGCCCCTGAAGCCACTGCAGCAGGAGGTGAACATCAAAGCAGA  
 TGGCATTGTGCTGGATCGGATATGCACCACCTCATCGGACTGGAGGAGCACCTGAATGCCTTGGACAG  
 GGCTGCTGGTGTGGGATTGTGGTCTACCCATAGCCGTGCTGCCAAAGCCATTACAGGGCTGGCTAAAG  
 GAAGGCCCATCTTAACAGCCCTGCCAGGACTCTCCAGATTGTCTGTCTGCTGGAGAGGATGG  
 GAGGCTCATCTGGGGCGCTCTATGGCCTGTTCTGACTGCAGCTGCCAGCCTCTCAAGGCCAAGACTGA  
 CCTCCCAACCTGGTCTGCTGCCATGGATGCCGGCTTAGAGTCCATGCAGAAGTATGGAAAGGCTGCACCA  
 GGAGACAGGACAATGCTGGATTCTCTGTGGCAGCAGCACAGGAGTTCCAAGCCTGGAAGAGCCAGGGG  
 CCAGTCTCCTCCAGTCTGACTAAAGCAGTCAAGAGTGTGAAGCTGCAGCCGAGGCCACCAAGAATAT  
 GGAAGCTGGTGTGGGAGAGCTAGTTATATCAGCTCTGCACAACCTAGATCAGCCAGACCCTGGAGCAGTC  
 GCAGCTGTGCCATCTCCGTGCCATCCTGGAGGTCTTGCAGACGCAGGGAGCA

**ACGCGT**ACGCGGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR209059 representing NM\_145496  
 Red=Cloning site Green=Tags(s)

MSSKMKVNSVEGCADDALAGLVASNPDLQLLQGHRVALRSDLTLKGRVALLSGGGSGHEPAHAGFIGKG  
 MLTGVIAGSVFASPPVGSILAAIRAVAQAGTVGTLIVKNYTGDRLNFGFLAMEQAKAEGISVEMVIVEDD  
 SAFTVLKAGRRGLCGTVLIHKVAGALAEEMGLEEITKRVSIAKTMGTLGVSLSSCSVPGATHFELA  
 ADEIELGLGIHGEAGVRRRIKIAPVDQIVTLMHDHMTNTSNIHFVPRVSGSSVVLIVNNLGGLSFLELGII  
 ADAAIRLLEGRGVKVARALVGTFM SALEMPGVSLTLMVDEPVLKLIDAETTAKAWPHMAKVSVTGRKRI  
 RAAPTEPPEAPEATAAGGVTSKQMALVLDRICTTLIGLEEHLNALDRAAGDGDGCSHRSRAAKAIQGWLK  
 EGPSLTSPAQVLSRLSVLLLERMGGSSGALYGLFLTAAQPLKAKTDLPTWSAAMDAGLESMQKYGKAAP  
 GDRTMLDSLWAAAEQFQAWKSPGASLLPVLTKAVKSAEAAAEEATKNMEAGAGRASYISSAQLDQDPDPAV  
 AAAAIFRAILEVLQTQGA

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:**

[https://cdn.origene.com/chromatograms/mm9081\\_f08.zip](https://cdn.origene.com/chromatograms/mm9081_f08.zip)

**Restriction Sites:**

Sgfl-Mlul

**Cloning Scheme:**


**ACCN:** NM\_145496

**ORF Size:** 1734 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\\_145496.1](#), [NP\\_663471.1](#)

**RefSeq Size:** 2350 bp

**RefSeq ORF:** 1737 bp

**Locus ID:** 225913

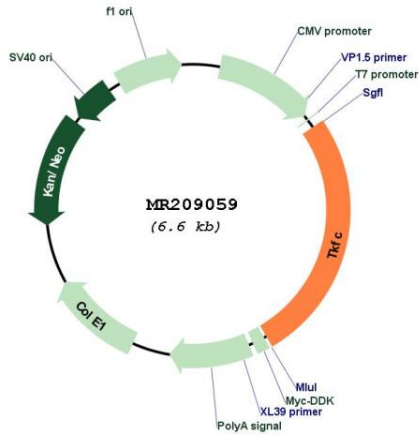
**UniProt ID:** [Q8VC30](#)

**Cytogenetics:** 19 A

MW: 59.7 kDa

Gene Summary: Catalyzes both the phosphorylation of dihydroxyacetone and of glyceraldehyde, and the splitting of ribonucleoside diphosphate-X compounds among which FAD is the best substrate. Represses IFIH1-mediated cellular antiviral response.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR209059