

Product datasheet for **MG209059**

Tkfc (NM_145496) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Tkfc (NM_145496) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Tkfc
Synonyms:	BC021917; Dak
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG209059 representing NM_145496
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGAGTTCCAAGAAGATGGTGAATTCTGTGGAAGGGTGTGCTGATGATGCCCTTGTGGTTAGTAGCCT
 CTAAACCTGACTTGCAGCTCCTGCAAGGGCACCGTGTGGCCCTACGTTCTGACCTGGACACCCTCAAGGG
 CCGGGTAGCACTTCTGTAGGTGGAGGCTCAGGCCATGAGCCTGCCATGCCGTTTTATCGGGAAAGGG
 ATGCTAACAGGTGTCATCGCAGGATCTGTGTTGCCTCTCCTCCTGTGGGCAGCATCTGGCAGCCATTA
 GAGCTGTGGCCAGGCAGGCACAGTGGGCACCCTCCTCATTGTGAAGAACTACACTGGGGATCGGCTCAA
 CTTTGGACTTGCCATGGAGCAGGCCAAGGCCGAGGGCATCTCTGTGGAGATGGTGAATGAGGATGAC
 AGTGCCTTACCCTCCTCAAGAAGGCAGGCCGGCGTGGCCTGTGTGCACAGTACTTATCCACAAGGTGG
 CAGGTGCTCTGGCTGAGGAAGGAATGGGCTGGAGGAGATCACAAGAGGGTGTGAGCGTATCGCCAAGAC
 CATGGGTACCCTAGGGGTGAGCTTGTCTCCTGCAGTGTCCCTGGCGCCACACACCTTTGAGCTTGCA
 GCTGATGAAATAGAGCTAGGCCTGGGGATCCATGGGGAAGCTGGTGTTCGTCGGATAAAGATAGCACCTG
 TTGATCAGATTGTCACTTTATGCTTGACCACATGACAAAACCTCCAATATATTTTCATGTGCCTGTACG
 GTCAGGCTCTTACAGTGGTGTGATAGTCAACAATCTGGGTGGCCTGTCTTTCCTGGAAGTGGGCATCATA
 GCTGATGCTGCCATACGCTTGTGGAGGGCCGTGGAGTGAAGGTCCGCCGTGCCCTGGTGGGCACCTTCA
 TGTGAGCGCTGGAGATGCCTGGTGTGTCTTACTTTGATGCTTGTGGATGAACCCGTGCTGAAGCTAAT
 AGATGCTGAAACTACTGCAAAAGCCTGGCCTCACATGGCCAAGGTCTCTGTGACTGGGAGGAAGCGGATT
 CGGGCAGCTCCCACAGAGCCTCCAGAAGCCCCTGAAGCCACTGCAGCAGGAGGTGAACATCAAAGCAGA
 TGGCACTTGTGCTGGATCGGATATGCACCACCTCATCGGACTGGAGGAGCACCTGAATGCCTTGGACAG
 GGCTGCTGGTGTGAGGGATTGTGGTTCTACCCATAGCCGTGCTGCCAAAGCCATTACAGGGCTGGCTAAAG
 GAAGGCCCATCTTAACAGCCCTGCCAGGACTCTCCAGATTGTCTGTCTGCTGGAGAGGATGG
 GAGGCTCATCTGGGGCGCTCTATGGCCTGTTCTGACTGCAGCTGCCAGCCTCTCAAGGCCAAGACTGA
 CCTCCCAACCTGGTCTGCTGCCATGGATGCCGGCTTAGAGTCCATGCAGAAGTATGGAAAGGCTGCACCA
 GGAGACAGGACAATGCTGGATTCTCTGTGGCAGCAGCACAGGAGTTCCAAGCCTGGAAGAGCCAGGGG
 CCAGTCTCCTCCAGTCTGACTAAAGCAGTCAAGAGTGTGAAGCTGCAGCCGAGGCCACCAAGAATAT
 GGAAGCTGGTGTGGGAGAGCTAGTTATATCAGCTCTGCACAACCTAGATCAGCCAGACCCTGGAGCAGTC
 GCAGCTGTGCCATCTCCGTGCCATCCTGGAGGTCTTGCAGACGCAGGGAGCA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG209059 representing NM_145496
 Red=Cloning site Green=Tags(s)

MSSKMKVNSVEGCADDALAGLVASNPDLQLLQGHRVALRSDLDTLKGRVALLSGGGSGHEPAHAGFIGKG
 MLTGVIAGSVFASPPVGSILAAIRAVAQAGTVGTLIVKNYTGDRLNFGFLAMEQAKAEGISVEMVIVEDD
 SAFTVLKAGRRGLCGTVLIHKVAGALAEEMGLEEITKRVSVIAKTMGTLGVSLSSCSVPGATHTFELA
 ADEIELGLGIHGEAGVRRRIKIAPVDQIVTLMLDHMTNTSNIHFVPRSGSSVVLIVNNLGGLSFLELGII
 ADAAIRLLEGRGVKVARALVGFMSALEMPGVSLTLMVDEPVLKLIDAETAKAWPHMAKVSVTGRKRI
 RAAPTEPPEAPEATAAGGVTSKQMALVLDRICTTLIGLEEHLNALDRAAGDGCSTHSRAAKAIQGWLK
 EGPSLTSPAQVLSRLSVLLLERMGGSSGALYGLFLTAAAQPLKAKTDLPTWSAAMDAGLESMQYKGAAP
 GDRTMLDSLWAAQEFQAWKSPGASLLPVLTKAVKSAEAAAEEATKNMEAGAGRASYISSAQLDQPDPGAV
 AAAAIFRAILEVLQTQGA

TRTRPLE - GFP Tag - V

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

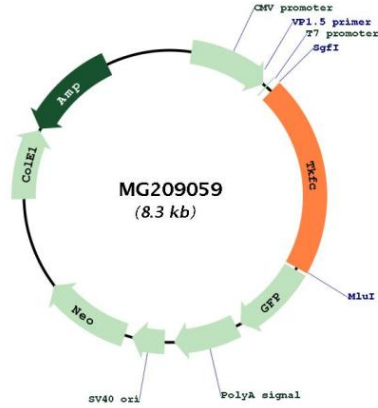
UniProt ID: [Q8VC30](#)

Cytogenetics: 19 A

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 MG209059