

## Product datasheet for **RN214942**

### Tkfc (NM\_001039031) Rat Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Tkfc (NM_001039031) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Tkfc
Synonyms:	Dak; RGD1311026
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**Fully Sequenced ORF:** >RN214942 representing NM\_001039031  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGAGCTCCAAGAAGATGGTGAATTCTGTGGAAGGGTGTGCTGGTATGCCCTTGTGGGTTTGTTCCT  
 GTAACCTGACTTGCAGCTCCTGCAAGGGTACCGTGTAGCCCTACGTTCTGACCTGGACAGCCTCAAGGG  
 CCGGGTGGCACTTCTGTAGGTGGAGGCTCAGGCCATGAGCCTGCCATGCCGTTTTATCGGGAAAGGA  
 ATGCTGACAGGTGCATTGCAGGAGCAGTGTTCCTCTCCTGTGTGGGACAGCATCTGGCAGCCATTA  
 GAGCTGTGGCCAGGCAGGCACAGCCGGCACCTCCTCATCGTGAAGAACTACACTGGGGATCGGCTCAA  
 CTTTGGACTTGCCATGGAGCAGGCCAAGGCCGAGGGCATCTCTGTGGAGATGGTGGTAATTGAGGATGAC  
 AGCGCCTTCACTGTCCTGAAGAAGGCAGGCCGGCTGGCCTGTGTGGCACAATACTTATCCACAAGGTAG  
 CAGGTGCTCTAGCTGAGGAAGGTATGGGGCTGGAGGAGATCACAAGAAGGTGAGCGTGATGCCAAGGC  
 CATAGGTAATCTGGGGTGGAGCTTGTCTCCCTGCAGTGTCCCTGGTACCAAACCCACCTTTGAGCTTGCA  
 GCTGATGAAATGGAGCTAGGCCTGGGGATCCATGGGGAAGCCGGTGTTCGTCGGATAAAGCTGGTACCTG  
 TTGATCAGATTGTCACTTTATGCTTGACCACATGACAGACACCTCCAATATATCCCATGTGCTGTGAA  
 GTCAGGCTCTTCACTGGTGTGATGGTCAACAATCTGGGTGGCCTGTCTTTCCTGGAAGTGGGCATCATA  
 GCTGATGCTGCCATACGCCTGCTGGAGGGCCGTGGGGTGAAGGTCCGCCGTGCCCTGGTGGGTACCTTCA  
 TGTGACACTAGAGATGCGTGGTGTTCCTTACTTTGATGCTTGTGGATGAACCCCTGCTGAAGCTGAT  
 AGATGCTGAAACTAATGCAAAAGCCTGGCCTCACATGTCCAAGGTCTCTGTGACTGGAAGGAATCGGATT  
 CGGGCAGCTCCCACAGAGCCTGCAGAAGCCCCTGAAGCCACTGCAGCAGGAGGTGTAGCATCAAAGCAGA  
 TGACACTTGTGCTGGATCGGATATCCACCACGCTCATCGGACTGGAGGAGCACCTGAATGCCCTGGACAG  
 GGCTGCTGGTGTGGGGACTGTGGTTCTACCCATAGCCGTGCTGCCAAAGCCATTCAAGGGTGGTTAAAG  
 GAAGGCCCAACTCCAGCCAGCCCTGCCAGGTGCTCTCAAAGTGTCTGTCTGCTGCTGGAGAAGATGG  
 GAGGCTCATCTGGGGCGCTCTACGGCCTGTTCTGACTGCAGCTGCCAGCCTCTCAAGGCCAACACTGA  
 CCTCCCAGCCTGGTCTGCTGCTATGGATGCCGGCCTAAAGGCCATGCAGAAGTATGGAAAGGCTGCACCA  
 GGAGACAGGACAATGCTGGATTCTCTGTGGCAGCAGCACAGGAGCTCCAAGCCTGGAAGAGCCAGGGG  
 CCAGTCTCCTCCAGTCTGACTAAAGCAGTCAAAGTGCCGAAGCTGCAGCCGAGGCCACCAAGAACAT  
 GGAAGCTGGTGTGGGAGAGCGAGTTACATCAGCTCTGCACAACCTAGATCAGCCAGACCCTGGAGCAGTT  
 GCGGCTGCAGCCATCTCCGTGCCATCCTGGAGGTCTTGCAGACGAAGGCAGCT**TAA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM\_001039031
- Insert Size:** 1737 bp
- OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
- 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\\_001039031.1](#), [NP\\_001034120.1](#)

**RefSeq Size:** 2403 bp

**RefSeq ORF:** 1737 bp

**Locus ID:** 361730

**UniProt ID:** [Q4KLZ6](#)

**Cytogenetics:** 1q43

**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 (PubMed:16289032). Represses IFIH1-mediated cellular antiviral response (By similarity). [UniProtKB/Swiss-Prot Function]