

## Product datasheet for **TP326803L**

### NFAT1 (NFATC2) (NM\_001136021) Human Recombinant Protein

#### Product data:

Product Type:	Recombinant Proteins
Description:	Purified recombinant protein of Homo sapiens nuclear factor of activated T-cells, cytoplasmic, calcineurin-dependent 2 (NFATC2), transcript variant D, 1 mg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC226803 representing NM_001136021 <b>Red</b> =Cloning site <b>Green</b> =Tags(s)

MQREAAFRLGHCHPLRIMGSDVQEEPNAHKVASPPSGPAYPDDVLDYGLKPYSPLASLSGEPGRFGEPD  
RVGPQKFLSAAKPAGASGLSPRIEITPSHELIQAVGPLRMRDAGLLVEQPPLAGVAASPRFTLPVPGFEG  
YREPLCLSPASSGSSASFISDTFSPYTPSPCVSPNNGGPDLLCPQFQNIPIAHYSPRTSPIMSPRTSLAEDS  
CLGRHSPVPRPASRSSSPGAKRRHSCEALVALPPGASQRSRSPSPQPSSHVAPQDHGSPAGYPPVAGS  
AVIMDALNSLATDSPCGIPPKMWKTSPPDPSVSAAPSKAGLPRHIYPAVEFLGPCEQGERRNSAPESILL  
VPPTWPKPLVPAIPICSIPTASLPLEWPLSSQSGSYELRIEVQPKPHHRAHYETEGSRGAVKAPTGGH  
PVVQLHGYMENKPLGLQIFIGTADERILKPHAFYQVHRITGKTVTTTSYEKIVGNTKVL EIPLEPKNNMR  
ATIDCAGILKLRNADIELRKGETDIGRKNTRVRLVFRVHIPESGRIVSLQTASNPIECSQRS AHELPMV  
ERQD TDSCLVYGGQQMILTGQNFTSESKVFTEKTTDGGQIQWEMEATVDKDKSQPNMLFVEIPEYRNKHI  
RTPVKVNFYVINGKRKRSQPQHFTYHPVPAIKTEPTDEYDPTLICSPHGGGLGSQPYYPQHMPMAESPSC  
LVATMAPCQQFRTGLSSPDARYQQQNPAAVLYQRSKSLSPSLLGYQPALMAAPLSLADAHRSVLVHAGS  
QGQSSALLHPSPTNQASPVIIHYSPTNQLRCSHGEFQHIMYCENFAPGTRPGPPPVVSQGQRLSPGSY  
PTVIQQNATSQRAAKNGPPVSDQKEVLPAGVTIKQEQLDQTYLDDDELIDTHLSWIQNIL

**TRTRPLEQKLISEEDLAANDILDYKDDDDKV**

Tag:	C-Myc/DDK
Predicted MW:	97.5 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Preparation:	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.



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**Note:** For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.

**Storage:** Store at -80°C.

**Stability:** Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.

**RefSeq:** [NP\\_001129493](#)

**Locus ID:** 4773

**UniProt ID:** [Q13469](#)

**Cytogenetics:** 20q13.2

**RefSeq ORF:** 2703

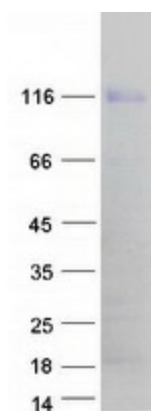
**Synonyms:** NFAT1; NFATP

**Summary:** This gene is a member of the nuclear factor of activated T cells (NFAT) family. The product of this gene is a DNA-binding protein with a REL-homology region (RHR) and an NFAT-homology region (NHR). This protein is present in the cytosol and only translocates to the nucleus upon T cell receptor (TCR) stimulation, where it becomes a member of the nuclear factors of activated T cells transcription complex. This complex plays a central role in inducing gene transcription during the immune response. Alternate transcriptional splice variants encoding different isoforms have been characterized. [provided by RefSeq, Apr 2012]

**Protein Families:** Druggable Genome, Transcription Factors

**Protein Pathways:** Axon guidance, B cell receptor signaling pathway, MAPK signaling pathway, Natural killer cell mediated cytotoxicity, T cell receptor signaling pathway, VEGF signaling pathway, Wnt signaling pathway

## Product images:



Coomassie blue staining of purified NFATC2 protein (Cat# [TP326803]). The protein was produced from HEK293T cells transfected with NFATC2 cDNA clone (Cat# [RC226803]) using MegaTran 2.0 (Cat# [TT210002]).