

## Product datasheet for PH326803

### NFAT1 (NFATC2) (NM\_001136021) Human Mass Spec Standard

#### Product data:

Product Type:	Mass Spec Standards
Description:	NFATC2 MS Standard C13 and N15-labeled recombinant protein (NP_001129493)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC226803
Predicted MW:	97.5 kDa
Protein Sequence:	>RC226803 representing NM_001136021 Red=Cloning site Green=Tags(s)

MQREAAFRLGHCHPLRIMGSDVQEENAHKVASPPSPGAYPDDVLDYGLKPYSPLASLSGEPGRFGEPD  
RVGPQKFLSAAKPAGASGLSPRIEITPSHEL IQAVGPLRMRDAGLLVEQPPLAGVAASPRFTLPVPGFEG  
YREPLCLSPASSGSSASFISDTFSPYTPSPCVSPNNGGDDLCQFQNI PAHYSRPTSPIMSPRTSLAEDS  
CLGRHSPVPRPASRSSSPGAKRRHSCAEALVALPPGASPQRSRSPSPQSSHVAPQDHGSPAGYPPVAGS  
AVIMDALNSLATDSPCGIPPKMWKTSDDPSPVSAAPSKAGLPRHIYPAVEFLGPCEQGERNSAPESILL  
VPPTWPKPLVPAIPICSIPTASLPLEWPLSSQSGSYELRIEVQPKPHHRAHYETEGSRGAVKAPTGGH  
PVVQLHGYMENKPLGLQIFIGTADERILKPHAFYQVHRITGKTVTTTSYEKIVGNTKVL EIPLEPKNNMR  
ATIDCAGILKLRNADIELRKGETDIGRKNTRVRLVFRVHIPESSGRIVSLQTASNP IECQRS AHELPMV  
ERQD TD SCLVYGGQQMIL TGQNF TSESKVVFTEKTTDGGQIWEMEATVDKDKSQPNMLFVEIPEYRNKHI  
RTPVKVNFYVINGKRKRSQPQHFTYHPVPAIKTEPTDEYDPTL ICSPTHGGLGSQPYYPQHMPVAESPSC  
LVATMAPCQQFRTGLSSPDARYQQNPAAVLYQRSKSLSPSLLGYQQPALMAAPLSLADAHRSVLVHAGS  
QGQSSALLHPSPTNQQASPVIHYSPTNQQLRCSHQEFQHIMYCNFAPGTTTRPGPPPVSQGRLSPGSY  
PTVIQQNATSQRRAKNGPPVSDQKEVLPAGVTIKQEQLDQTYLDELIDTHLSWIQNIL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- <sup>13</sup> C <sub>6</sub> , <sup>15</sup> N <sub>4</sub> ]-L-Arginine and [U- <sup>13</sup> C <sub>6</sub> , <sup>15</sup> N <sub>2</sub> ]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.



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RefSeq: [NP\\_001129493](#)

RefSeq ORF: 2703

Synonyms: NFAT1; NFATP

Locus ID: 4773

UniProt ID: [Q13469](#)

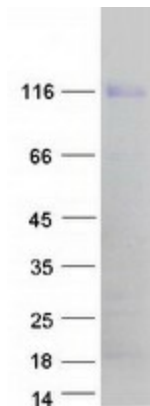
Cytogenetics: 20q13.2

**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]).