

Product datasheet for PH301336

NR2F6 (NM_005234) Human Mass Spec Standard

Product data:

| | |
|---------------------------------------|--|
| Product Type: | Mass Spec Standards |
| Description: | NR2F6 MS Standard C13 and N15-labeled recombinant protein (NP_005225) |
| Species: | Human |
| Expression Host: | HEK293 |
| Expression cDNA Clone or AA Sequence: | RC201336 |
| Predicted MW: | 42.8 kDa |
| Protein Sequence: | >RC201336 representing NM_005234 Red=Cloning site Green=Tags(s) MAMVTGGWGGPGGDTNGVDKAGGYPRAAEDDSASPPGAASDAEPGDEERPGLQVDCVCGDKSSGKHYGV FTCEGCKSFFKRSIRRNLSTCRSNRDCQIDQHHRNQCYCRLKKCFRVGMRKEAVQGRGRIPHSLPGAVA ASSGSPPGSALAAVASGGDLFPGQPVSELIAQLLRAEPYPAAAGRFAGGGGAAGAVLGIDNVCELAARLL FSTVEWARHAPFFPELPVADQVALLRLSWSELFVLNAAQAALPLHTAPLLAAAGLHAAPMAAERAVAFMD QVRAFQEQVDKLGRLQVDSAEYGCLKAIALFTPACGLSDPAHVESLQEKAQVALTEYVRAQYPSQPQRF GRLLLLRPLRAVPASLISQLFMRLVGKTPIETLIRDMLLSGSTFNWPYGSGQ 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- ¹³ C ₆ , ¹⁵ N ₄]-L-Arginine and [U- ¹³ C ₆ , ¹⁵ N ₂]-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. |
| RefSeq: | <u>NP_005225</u> |
| RefSeq Size: | 1804 |
| RefSeq ORF: | 1212 |
| Synonyms: | EAR-2; EAR2; ERBAL2 |
| Locus ID: | 2063 |



[View online »](#)

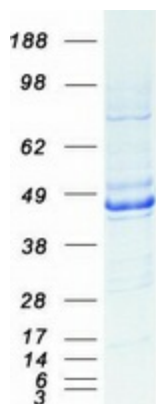
UniProt ID: [P10588](#), [F1D8R3](#)

Cytogenetics: 19p13.11

Summary: Transcription factor predominantly involved in transcriptional repression. Binds to promoter/enhancer response elements that contain the imperfect 5'-AGGTCA-3' direct or inverted repeats with various spacings which are also recognized by other nuclear hormone receptors. Involved in modulation of hormonal responses. Represses transcriptional activity of the lutropin-choriogonadotropic hormone receptor/LHCGR gene, the renin/REN gene and the oxytocin-neurophysin/OXT gene. Represses the triiodothyronine-dependent and -independent transcriptional activity of the thyroid hormone receptor gene in a cell type-specific manner. The corepressing function towards thyroid hormone receptor beta/THRB involves at least in part the inhibition of THRB binding to triiodothyronine response elements (TREs) by NR2F6. Inhibits NFATC transcription factor DNA binding and subsequently its transcriptional activity. Acts as transcriptional repressor of IL-17 expression in Th-17 differentiated CD4(+) T cells and may be involved in induction and/or maintenance of peripheral immunological tolerance and autoimmunity. Involved in development of forebrain circadian clock; is required early in the development of the locus coeruleus (LC). [UniProtKB/Swiss-Prot Function]

Protein Families: Druggable Genome, Nuclear Hormone Receptor, Transcription Factors

Product images:



Coomassie blue staining of purified NR2F6 protein (Cat# [TP301336]). The protein was produced from HEK293T cells transfected with NR2F6 cDNA clone (Cat# [RC201336]) using MegaTran 2.0 (Cat# [TT210002]).