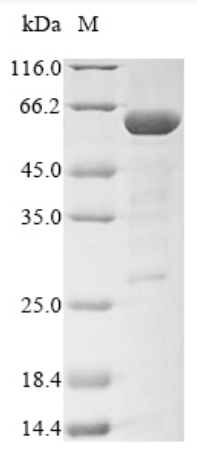


# *for research use only*

## Datasheet

<b>Product Name</b>	Recombinant Human Nuclear receptor subfamily 2 group F member 6(NR2F6)
<b>Catalog Number</b>	AAA18454
<b>Expression host</b>	<i>E.coli</i>
<b>Product Info</b>	N-terminal 6xHis-SUMO-tagged
<b>Storage Buffer</b>	20 mM Tris-HCl, 0.5 M NaCl, pH 8.0, 50% glycerol
<b>Storage</b>	Store at -20°C, for extended storage, conserve at -20°C or -80°C.
<b>Notes</b>	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
<b>Relevance</b>	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 <sup>+</sup> 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).
<b>AA sequence</b>	MAMVTGGWGGPGGDTNGVDKAGGYPRAAEDDSASPPGAASDAEPGDEERP GLQVDCVVC GDKSSGKH YGVFTCEGCKSFFKRSIRRNLSYTCRSNRDCQIDQ HHRNQCYCRLKKCFRVGMRKEAVQRGRIPHSLPGAVAASSGSPPGSALA AV ASGGDLFPGQPVSELIAQLLRAEPYPAAAGRFGAGGGAAGAVLGIDNVCELA ARLLFSTVEWARHAPFFPELPVADQVALLRLSWSELFVLNAAQAALPLHTAP LLAAAGLHAAPMAAERAVAFMDQVRAFQEQVDKLGRLQVDSA EYGCLKAI ALFTP DACGLSDPAHVESLQEKAQVALTEYVRAQYPSQPQRFGRLLLRLPALR AVPASLISQLFFMRLVGKTP IETLIRDMLLSGSTFNWPYGSGQ
<b>References</b>	"Complete sequencing and characterization of 21,243 full-length human cDNAs." Ota T., Suzuki Y., Nishikawa T., Otsuki T., Sugiyama T., Irie R., Wakamatsu A., Hayashi K., Sato H., Nagai K., Kimura K., Makita H., Sekine M., Obayashi M., Nishi T., Shibahara T., Tanaka T., Ishii S. Sugano S. Nat. Genet. 36:40-45(2004)

**Certificate of Analysis**

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<b>Catalog Number</b>	AAA18454	
<b>Expression host</b>	<i>E.coli</i>	
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<b>Buffer</b>	20 mM Tris-HCl, 0.5 M NaCl, pH 8.0, 50% glycerol	
<b>Batch Number</b>	YA03468a1g5	
<b>Nature</b>	Human NR2F6-(AA 1-404)- <b>P10588</b> -Full Length	
<b>Purification</b>	Affinity purified using IMAC	
<b>Recommended Storage</b>	Short term	2 to 8 °C, one week from the date of receipt
	Long term	-20 to -80 °C, six months from the date of receipt
<b>Form</b>	Liquid	
<b>Date of detection</b>	2023.01.12	
<b>Test Items</b>	<b>Specifications</b>	<b>Results</b>
<b>Appearance</b>	Clear Solution	pass
<b>Concentration</b>	0.1-5 mg/ml, by the Bradford Method.	0.7 mg/ml
<b>Purity</b>	≥90%, by SDS-PAGE quantitative densitometry by Coomassie Blue Staining.	
<b>Molecular Weight</b>	Predicted band size: 59.0 kDa	

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<b>Electrophoretic parameters</b>	(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.
<b>Aseptic Processing</b>	Not done
<b>Endotoxin Level</b>	Untreated
<b>Activity</b>	Not tested
<b>Conclusion</b>	pass