

Product datasheet for **TP311966M**

ARNT2 (NM_014862) Human Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human aryl-hydrocarbon receptor nuclear translocator 2 (ARNT2), 100 µg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC211966 representing NM_014862 Red =Cloning site Green =Tags(s) MATPAAVNPPEMASDIPGSVTLPVAPMAATGQVRMAGAMPARGGKRRSGMDFDDEDGEGPSKFSRENHSE IERRRRNKMTQYITELSDMVPTCSALARKPDKLTILRMAVSHMKSMRGTGNKSTDGAYKPSFLTEQELKH LILEAADGFLFVAAETGRVIYVSDSVTPVLNQPQSEWFGSTLYEQVHPDDVEKLREQLCTSENSMTGRI LDLKTGTVKKEGQSSMRMCMGSRRSFICRMRCGNAPLDHLPLNRITMRKRFRNGLGPVKEGEAQYAVV HCTGYIKAWPPAGMTIPEEDADVGGQSKYCLVAIGRLQVTSSPVCMDMNGMSVPTFELSRHNSDGIITFV DPRCISVIGYQPQDLLGKDILEFCHPEDQSHLRESFQQVWKLKGQVLSVMYRFRTKNREWMLIRTSSFTF QNPYSDEIYIICTNTNVKQLQQQAELEVHQRDGLSSYDLSQVPVNLPAAGVHEAGKSVEKADAIFSQE RDRPFAEMFAGISASEKKMMSSASAAGTQQIYSQGSFPFSGHSGKAFSSSVVHVPGVNDIQSSSSTGQNM SQISRQLNQSQVAWTGSRPPFPGQQIPSQSSKTQSSPFGIGTSHTYPADPSSYSPLSSPATSSPSGNAYS SLANRTPGFAESGQSSGQFQGRPSEVWSQWQSQHHGQSQSGEQHSHQPGQTEVFQDMLPMPGDPTQGTGN YNIEDFADLGMFPPFSE TRTRPLEQKLISEEDLAANDILDYKDDDDKV
Tag:	C-Myc/DDK
Predicted MW:	78.5 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.
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.



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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_055677](#)

Locus ID: 9915

UniProt ID: [Q9HBZ2](#), [Q7Z3A3](#), [X5DQN9](#), [Q86TN1](#)

RefSeq Size: 6576

Cytogenetics: 15q25.1

RefSeq ORF: 2151

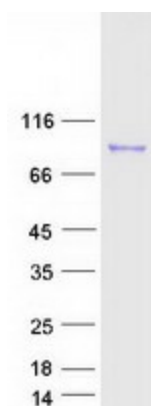
Synonyms: bHLHe1; WEDAS

Summary: This gene encodes a member of the basic-helix-loop-helix-Per-Arnt-Sim (bHLH-PAS) superfamily of transcription factors. The encoded protein acts as a partner for several sensor proteins of the bHLH-PAS family, forming heterodimers with the sensor proteins that bind regulatory DNA sequences in genes responsive to developmental and environmental stimuli. Under hypoxic conditions, the encoded protein complexes with hypoxia-inducible factor 1alpha in the nucleus and this complex binds to hypoxia-responsive elements in enhancers and promoters of oxygen-responsive genes. A highly similar protein in mouse forms functional complexes with both aryl hydrocarbon receptors and Single-minded proteins, suggesting additional roles for the encoded protein in the metabolism of xenobiotic compounds and the regulation of neurogenesis, respectively. [provided by RefSeq, Dec 2013]

Protein Families: Druggable Genome, Transcription Factors

Protein Pathways: Pathways in cancer, Renal cell carcinoma

Product images:



Coomassie blue staining of purified ARNT2 protein (Cat# [TP311966]). The protein was produced from HEK293T cells transfected with ARNT2 cDNA clone (Cat# [RC211966]) using MegaTran 2.0 (Cat# [TT210002]).