

## Product datasheet for **TP311966L**

### ARNT2 (NM\_014862) Human Recombinant Protein

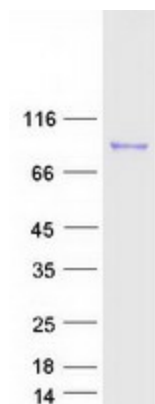
#### Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human aryl-hydrocarbon receptor nuclear translocator 2 (ARNT2), 1 mg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC211966 representing NM_014862 <b>Red</b> =Cloning site <b>Green</b> =Tags(s)
	<p>MATPAAVNPPEMASDIPGSVTLPVAPMAATGQVRMAGAMPARGGKRRSGMDFDDEDEGEGPSKFSREN HSE IERRRRNKMTQYITELSDMVPTCSALARKPKDLTILRMAVSHMKSMRGTGNKSTDGAYKPSFLTEQELKH LILEAADGFLFVAAETGRVIYVSDSVTPVLNQPPQSEWFGSTLYEQVHPDDVEKLREQLCTSENSMTGRI LDLKTGTVKKEGQQSSMRMCMGSRRSFICRMRCGNAPLDHLPLNRITTMKRFRNGLGPVKEGEAQYA VV HCTGYIKAWPPAGMTIPEEDADVGGQSKYCLVAIGRLQVTSSPVCMDMNGMSVPTEFLSRHNSDGIITFV DPRCISVIGYQPQDLLGKDILEFCHPEDQSHLRESFQQVVKLGQVLSVMYRFRTKNREWMLIRTSSFTF QNPYSDEIEYIICTNTNVKQLQQQAELEVHQRDGLSSYDLSQVPVNPAGVHEAGKSVEKADAIFSQE RDPRFAEMFAGISASEKKMMSSASAAGTQQIYSQGSPPFSGHSGKAFSSSVVHVPGVNDIQSSSSTGQNM SQISRQLNQSQVAWTGSRPPFPGQQIPSQSSKTQSSPFGIGTSHTYPADPSSYSPSSPATSSPSGNAYS SLANRTPGFAESGQSSGQFQGRPSEVWSQWQSQHHGQQSGEQHSHQQPGQTEVFQDMLPMPGDPT QGTGN YNIEDFADLGMFPPFSE</p> <p><b>TRTRPLEQKLISEEDLAANDILDYKDDDDKV</b></p>
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



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<b>Preparation:</b>	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
<b>Note:</b>	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
<b>Storage:</b>	Store at -80°C.
<b>Stability:</b>	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
<b>RefSeq:</b>	<u><a href="#">NP_055677</a></u>
<b>Locus ID:</b>	9915
<b>UniProt ID:</b>	<u><a href="#">Q9HBZ2</a></u>
<b>RefSeq Size:</b>	6576
<b>Cytogenetics:</b>	15q25.1
<b>RefSeq ORF:</b>	2151
<b>Synonyms:</b>	bHLHe1; WEDAS
<b>Summary:</b>	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]
<b>Protein Families:</b>	Druggable Genome, Transcription Factors
<b>Protein Pathways:</b>	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]).