

## Product datasheet for TP311966L

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

#### Product data:

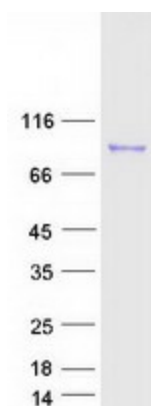
<b>Product Type:</b>	Recombinant Proteins
<b>Description:</b>	Recombinant protein of human aryl-hydrocarbon receptor nuclear translocator 2 (ARNT2), 1 mg
<b>Species:</b>	Human
<b>Expression Host:</b>	HEK293T
<b>Expression cDNA Clone or AA Sequence:</b>	>RC211966 representing NM_014862 <b>Red</b> =Cloning site <b>Green</b> =Tags(s)  MATPAAVNPPEMASDIPGSVTLPVAPMAATGQVRMAGAMPARGGKRRSGMDFDDEDGEGPSKFSRENHSE IERRRRNKMTQYITELSDMVPTCSALARKPDKLTILRMAVSHMKSMRGTGNKSTDGAYKPSFLTEQELKH LILEAADGFLFVAAETGRVIYVSDSVTPVLNQPQSEWFGSTLYEQVHPDDVEKLREQLCTSENSMTGRI LDLKTGTVKKEGQSSMRMCMGSRRSFICRMRCGNAPLDHLPLNRITMRKRFRNGLGPVKEGEAQYAVV HCTGYIKAWPPAGMTIPEEDADVGGQSKYCLVAIGRLQVTSSPVCMDMNGMSVPTFELSRHNSDGIITFV DPRCISVIGYQPQDLLGKDILEFCHPEDQSHLRESFQQVWKLKGQVLSVMYRFRTKNREWMLIRTSSFTF QNPYSDEIYIICTNTNVKQLQQQAELEVHQRDGLSSYDLSQVPVNLPAAGVHEAGKSVEKADAIFSQE RDRPFAEMFAGISASEKKMMSSASAAGTQQIYSQGSPPSGHSGKAFSSSVVHVPGVNDIQSSSSTGQNM SQISRQLNQSQVAWTGSRPPFPQQIPSQSSKTQSSPFGIGTSHYTPADPSSYSPLSSPATSSPSGNAYS SLANRTPGFAESGQSSGQFQGRPSEVWSQWQSQHHGQSQSGEQHSHQPGQTEVFQDMLPMPGDPTQGTGN YNIEDFADLGMFPPFSE  <b>TRTRPLEQKLISEEDLAANDILDYKDDDDKV</b>
<b>Tag:</b>	C-Myc/DDK
<b>Predicted MW:</b>	78.5 kDa
<b>Concentration:</b>	>0.05 µg/µL as determined by microplate BCA method
<b>Purity:</b>	> 80% as determined by SDS-PAGE and Coomassie blue staining
<b>Buffer:</b>	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
<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.



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<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>	<a href="#">NP_055677</a>
<b>Locus ID:</b>	9915
<b>UniProt ID:</b>	<a href="#">Q9HBZ2</a> , <a href="#">Q7Z3A3</a> , <a href="#">X5DQN9</a> , <a href="#">Q86TN1</a>
<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]).