

## Product datasheet for **SC100052**

### TOR1AIP2 (NM\_145034) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	TOR1AIP2 (NM_145034) Human Untagged Clone
Tag:	Tag Free
Symbol:	TOR1AIP2
Synonyms:	IFRG15; LULL1; NET9
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_145034, the custom clone sequence may differ by one or more nucleotides

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ATGCGCCGACAGTGGACTTAGGGAACCTCAAGAGGACTCTCAAAGGATTTGGAAAATGATCCATCAGTAA
ATTCTCAGGCGCAGGAGACCACAATCATAGCAAGTAATGCTGAAGAAGCTGAGATCCTACACTCTGCCTG
TGGTCTTAGCAAAGACCACCAAGAGGTAGAGACAGAAGGTCCAGAAAAGTGCAGATACAGGTGATAAATCA
GAAAGTCCAGATGAAGCAAATGTGGGAAAACATCCAAAGGATAAAACAGAAGATGAGAACAAGCAGAGTT
TTCTGGATGGCGGAAAAGGGCATCACCTCCCTCAGAAAATCTGGGTAAAGAACCCCTTGGATCCAGATCC
CAGCCATTCTCCAAGTGACAAGGTAGGAAGAGCAGATGCACACTAGGGAGCAGCTCTGTGGCCCTCCCT
AAGGAAGCGAGTGACGGAAGTGGAGCATCTCAGGAACCACCTACTACAGACTCCCAGGAGGCCAGAGTC
CTGGTCATTCCAGTGCAGGGCAAGAGGGTGAGGATACACTGAGGAGGCGACTGCTGGCCCCAGAGGCTGG
AAGTCATCCACAACAAACACAAAATTGGAAGAAATTAAGAGAATGCACAGGACACCATGAGACAGATT
AATAAAAAGGGTTTTGGAGCTATGGCCCTGTGATTCTTGTGCTGCTGGTGTGGCTGTTGTGGCAAGTT
CTGTGAATAGCTACTATTCCTCTCCAGCCCAGCAAGTGCCCAAAAATCCAGCTTTGGAGGCCTTTTTGGC
CCAGTTTAGCCAATTGGAAGATAAATTTCCAGGCCAGAGTTTCTTCTGTGGCAGAGAGGACGGAAGTTT
CTCCAGAAGCACCTCAATGCTTCCAACCCCACTGAGCCAGCCACCATCATATTTACAGCAGCTCGGGAGG
GAAGAGAGACCCTGAAGTGCCTGAGCCACCATGTTGCAGATGCCTACACCTTTCCAGAAAAGTCTCTCC
CATTTCAGATTGATGGGGCTGGAAGGACCTGGCAGGACAGTGACACGGTCAAGCTGTTGGTTGACCTGGAG
CTGAGCTATGGGTTTGAGAATGGCCAGAAGGCTGCTGTGGTACACCACTTCAATCCTTCCCTGCCGGCT
CCAATTTGATCTTCTATAAGTATTGTGATCATGAGAATGCTGCCTTTAAAGATGTGGCCCTGGTCTGAC
TGTTCTGCTAGAGGAGGAAAACATTAGAAGCAAGTGTAGGCCCAAGGGAAACGGAAGAAAAAGTGAGAGAC
TACTCTGGGCCAAGTTTACCAACTCTGACACTCCACCTCCTTCAACCACATGGACTCAGACAAATTGA
GTGGGCTGTGGAGCCGAATTTACACCTGGTACTGCCAGTCCAGCCAGTGAGTAGCATAGAAGAACAGGG
GTGCCTTTCTAA

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<b>5' Read Nucleotide Sequence:</b>	>OriGene 5' read for NM_145034 unedited CTCATAACACCCGCCCGTTGNCGCAAAGGGCGGTAGGCGTGTACGGTGGGAGGTCTATAT AAGCAGAGCTCATTTAGGTGACACTATAGAATACAAGCTACTTGTCTTTTTGCAGCGGC CGGAATTCGGCACGAGGTATATGCCTTATTTCTGGTCCATGGGAAGCATGAGTCTGT TGGGACTTGGGACAAGAAGAAAACAAGACATCTTCACAAGGAAAACCAAGTACTAAAAAA AGTATCCTCCCACTCTGAAGAGATAGAACACAAACATGGCCGACAGTGGACTTAGGGAA CCTCAAGAGGACTCTCAAAGGATTTGGAAAATGATCCATCAGTAAATTCTCAGGCGCAG GAGACCACAATCATAGCAAGTAATGCTGAAGAAGCTGAGATCCTACACTCTGCCTGTGGT CTTAGCAAAGACCACCAAGAGGTAGAGACAGAAGTCCAGAAAAGTGCAGATACAGGTGAT AAATCAGAAAAGTCCAGATGAAGCAAATGTGGGAAAACATCCAAAGGATAAAACAGAAGAT GAGAACAAGCAGAGTTTTCTGGATGGCGGAAAAGGGCATCACCTCCCTTCAGAAAATCTG GGTAAAGAACCCTTGGATCCAGATCCCAGCCATTCTCCAAGTGACAAGGTAGGAAGACGA GATGCACACTTAGGGAGCAGCTCTGTGGCCCTCCCTAAGAAGCGAGTGACGGAAGTGGAG CATCTCAGGAACCACCTACTACAGACTCCCAGGAGGGCCAGAGTCTGGTCATTCCAGTG CAGGGCAAAGAGGGTGAGATACACTGAAGAGGGCGACTGCTGGCCCCANAGGCTGGNAGT CATCCACCACAACAAAATTGGAAGAATTAAGAGATGCACAGACACCTGAGACAGATAT AAAAAGGGTTTTGAAGCTTGGCCTGTGATTCTTGCGCCCTGGTGNCGCCTGTGGGCAAA
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_145034
<b>Insert Size:</b>	4400 bp
<b>OTI Disclaimer:</b>	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
<b>Components:</b>	The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.</li> </ol>
<b>RefSeq:</b>	<a href="#">NM_145034.1</a> , <a href="#">NP_659471.1</a>
<b>RefSeq Size:</b>	3074 bp
<b>RefSeq ORF:</b>	1413 bp
<b>Locus ID:</b>	163590
<b>UniProt ID:</b>	<a href="#">Q8NFO8</a>
<b>Cytogenetics:</b>	1q25.2
<b>Protein Families:</b>	Transmembrane

**Gene Summary:**

One of the two protein isoforms encoded by this gene is a type II integral membrane protein found in the endoplasmic reticulum (ER). The encoded protein is a cofactor for the ATPase TorsinA, regulating the amount of TorsinA present in the ER compared to that found in the nuclear envelope. Defects in this protein are a cause of early onset primary dystonia, a neuromuscular disease. The other isoform encoded by this gene is an interferon alpha responsive protein whose cellular role has yet to be determined. [provided by RefSeq, Mar 2017]

Transcript Variant: This variant (2) contains the same 5' non-coding exons, but has a completely different set of coding exons compared to variant 1. This results in a longer isoform b (torsin-1A-interacting protein 2) distinct from isoform a, referred to as interferon alpha responsive protein.