

## Product datasheet for **RG210930**

### **TOR1AIP2 (NM\_145034) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	TOR1AIP2 (NM_145034) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	TOR1AIP2
Synonyms:	IFRG15; LULL1; NET9
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG210930 representing NM\_145034  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGCCGACAGTGGACTTAGGGAACCTCAAGAGGACTCTCAAAGGATTTGGAAAATGATCCATCAGTAA  
 ATTCTCAGGCGCAGGAGACCACAATCATAGCAAGTAATGCTGAAGAAGCTGAGATCTACTACTCTGCCTG  
 TGGTCTTAGCAAAGACCACCAAGAGGTAGAGACAGAAGGTCCAGAAAAGTGCAGATACAGGTGATAATCA  
 GAAAGTCCAGATGAAGCAAATGTGGGAAAACATCCAAAGGATAAAACAGAAGATGAGAACAAGCAGAGTT  
 TTCTGGATGGCGGAAAAGGGCATCACCTCCCTTCAGAAAATCTGGGTAAAGAACCCTTGGATCCAGATCC  
 CAGCCATTCTCCAAGTGACAAGGTAGGAAGAGCAGATGCACACTAGGGAGCAGCTCTGTGGCCCTCCCT  
 AAGGAAGCGAGTGACGGAAGTGGAGCATCTCAGGAACCACCTACTACAGACTCCCAGGAGGCCAGAGTC  
 CTGGTCATTCCAGTGCAGGGCAAGAGGGTGAAGATACACTGAGGAGGCGACTGCTGGCCCCAGAGGCTGG  
 AAGTCATCCACAACAAACAAAAATTGGAAGAAATTAAGAGAATGCACAGGACACCATGAGACAGATT  
 AATAAAAAGGGTTTTTGGAGCTATGGCCCTGTGATTTCTGTCTGCTGGTTGTGGCTGTTGTGGCAAGTT  
 CTGTGAATAGCTACTATTCCTCTCCAGCCAGCAAGTGCCCAAAAATCCAGCTTTGGAGGCCTTTTTGGC  
 CCAGTTTAGCCAATTGGAAGATAAATTTCCAGGCCAGAGTTTCTTCTGTGGCAGAGAGGACGGAAGTTT  
 CTCCAGAAGCACCTCAATGCTTCCAACCCCACTGAGCCAGCCACCATCATATTTACAGCAGCTCGGGAGG  
 GAAGAGAGACCCCTGAAGTGCCTGAGCCACCATGTTGCAGATGCCTACACCTCTTCCAGAAAAGTCTCTCC  
 CATTGAGATTGATGGGGCTGGAAGGACCTGGCAGGACAGTGACACGGTCAAGCTGTTGGTTGACCTGGAG  
 CTGAGCTATGGGTTTGAAGTGGCCAGAAGGCTGCTGTGGTACACCACTTCGAATCCCTCCCTGCCGGCT  
 CCACTTTGATCTTCTATAAGTATTGTGATCATGAGAATGCTGCCTTTAAGATGTGGCCCTGGTCTGAC  
 GTTCTGCTAGAGGAGGAACATTAGAAGCAAGTGTAGGCCAAGGGAAACGGAAGAAAAAGTGAGAGAC  
 TTAATCTGGGCCAAGTTTACCAACTCTGACACTCCACCTCCTTCAACCACATGGACTCAGACAAATTGA  
 GTGGGCTGTGGAGCCGAATTTACACCTGGTACTGCCAGTCCAGCCAGTGAAGTACATAGAAGAACAGGG  
 GTGCCTTTTT

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:**

>RG210930 representing NM\_145034  
 Red=Cloning site Green=Tags(s)

MADSGLEPQEDSQKDLNDPSVNSQAQETIIASNAEEAEILHSACGLSKDHQEVETEGPESADTGDKS  
 ESPDEANVGKHPKDKTEDENKQSFLDGGKGHLLPSENLGKEPLDPDPSPSHSPDKVGRADHLGSSSVLPP  
 KEASDGTGASQEPPTTDSQEAQSPGHSSAGQEGEDTLRRRLLAPEAGSHPQQTQKLEEIKENAQDTMRQI  
 NKKGFWSYGPVILVVLVAVVASSVNSYSSPAQQVPKNPALAEFLAQFSQLEDKFPQGSSFLWQRGRKF  
 LQKHLNASNPTEPATIIFTAAREGRETLCCLSHHVADAYTSSQKVPISQIDGAGRTWQDSDTVKLLVDLE  
 LSYGFENGQKAAVVHVFESFPAGSTLIFYKYCDHENAFAFKDVALVLTVLLEEETLEASVGPTEETKVRD  
 LLWAKFTNSDTPTSFNHMDSDKLSGLWSRISHLVLPVQPVSSIEEQGLF

**TRTRPLE** - GFP Tag - V

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**


**ACCN:** NM\_145034

**ORF Size:** 1410 bp

**OTI Disclaimer:** The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

**OTI Annotation:** This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

**Components:** 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).

**Reconstitution Method:**

1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
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.

**RefSeq:** [NM\\_145034.5](#)

**RefSeq Size:** 3074 bp

**RefSeq ORF:** 1413 bp

**Locus ID:** 163590

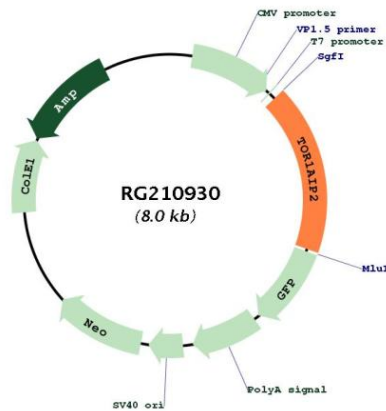
**UniProt ID:** [Q8NFO8](#)

**Cytogenetics:** 1q25.2

**Protein Families:** 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]

**Product images:**



Circular map for RG210930