

Product datasheet for **RG200389**

Torsin A (TOR1A) (NM_000113) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Torsin A (TOR1A) (NM_000113) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Torsin A
Synonyms:	AMC5; DQ2; DYT1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG200389 representing NM_000113 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGAAGCTGGGCCGGCCGTGCTGGCCTGCTGCTGCTGGCGCCGTCCTGGTGCAGGCGGTGGAGCCCA
TCAGCCTGGGACTGGCCCTGGCCGGCGTCCTCACCGCTACATCTACCCGCTCTCTACTGCCTCTTCGC
CGAGTGTGCGGGCAGAAGCGGAGCCTTAGCCGGGAGGCACTGCAGAAGGATCTGGACGACAACCTCTTT
GGACAGCATCTTGCAAAGAAAATCATCTTAAATGCCGTGTTGGTTTCATAAACAACCCAAAGCCCAAGA
AACCTCTCAGCTCTCCCTGCACGGGTGGACAGGCACCGCAAAAATTCGTCAGCAAGATCATCGCAGA
GAATATTTACGAGGGTGGTCTGAACAGTACTATGTCCACTGTTTGTGGCCACATTGCACTTTCCACAT
GCTTCAAACATCACCTTGTACAAGGATCAGTTACAGTTGTGGATTCGAGGCAACGTGAGTGCCTGTGCGA
GGTCCATCTTCATATTTGATGAAATGGATAAGATGCATGCAGGCCTCATAGATGCCATCAAGCCTTTCCT
CGACTATTATGACCTGGTGGATGGGGTCTCCTACCAGAAAGCCATGTTTCATATTTCTCAGCAATGCATGGA
GCAGAAAGGATCACAGATGTGGCTTTGGATTTCTGGAGGAGTGGAAAGCAGAGGGAAGACATCAAGCTCA
AAGACATTGAACACGCGTTGTCTGTGTCGGTTTTCAATAACAAGAACAGTGGCTTCTGGCACAGCAGCTT
AATTCACCGGAACCTCATTGATTATTTTGTCCCTTCTCCCTGGAATACAAACACCTAAAAATGTGT
ATCCGAGTGGAAATGCAGTCCCAGGCTATGAAATTGATGAAGACATTGTAAGCAGAGTGGCTGAGGAGA
TGACATTTTTCCCAAAGAGGAGAGAGTTTTCTCAGATAAAGGCTGCAAAACGGTGTTCACCAAGTTAGA
TTATTACTACGATGAT

AG**CGGACCG**ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



[View online »](#)

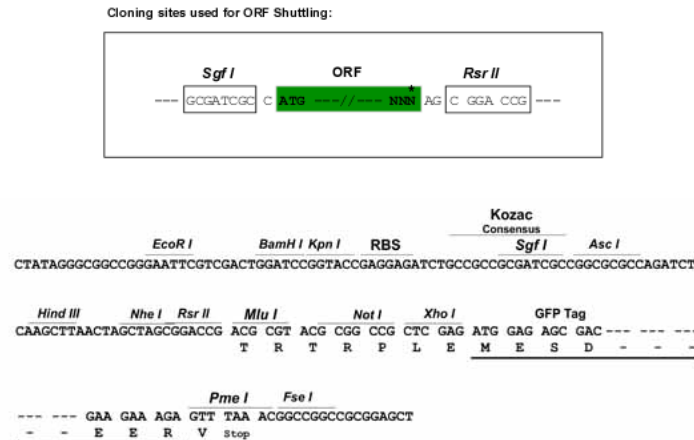
Protein Sequence: >RG200389 representing NM_000113
Red=Cloning site Green=Tags(s)

MKLGRAVLGLLLLAPSVMQAVEPISLGLALAGVLTGYIYPRLYCLFAECCGQKRSLSREALQKDLDDNLF
 GQHLAKKIILNAVFGFINNPKPKKPLTSLHGWTGTGKNFVSKIIAENIYEGGLNSDYVHLFVATLHFPH
 ASNITLYKDQLQLWIRGNVSACARSIFIFDEMCKMHAGLIDAIKPFLLDYDLDVGVSYQKAMFIFLSNAG
 AERITDVALDFWRSQKREDIKLDIEHALSVSVFNKNKSGFWHSSLIHRNLIDYFVFPFLPLEYKHLKMC
 IRVEMQSRGYEIDEDIVSRVAEEMTFPPKEERVFSKDGCKTVFTKLDYYYDD

SGPTRRRLE - GFP Tag - V

Restriction Sites: SgfI-RsrII

Cloning Scheme:



ACCN: NM_000113

ORF Size: 996 bp

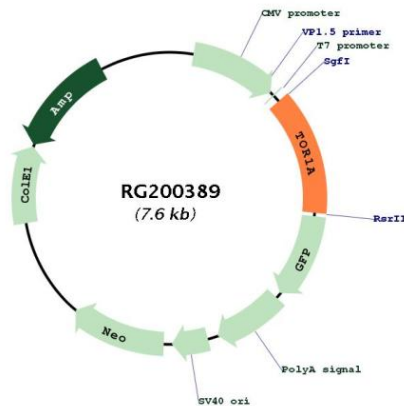
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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:	<ol style="list-style-type: none">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_000113.2 , NP_000104.1
RefSeq Size:	2117 bp
RefSeq ORF:	999 bp
Locus ID:	1861
UniProt ID:	O14656
Cytogenetics:	9q34.11
Protein Families:	Druggable Genome, Protease
Gene Summary:	The protein encoded by this gene is a member of the AAA family of adenosine triphosphatases (ATPases), is related to the Clp protease/heat shock family and is expressed prominently in the substantia nigra pars compacta. Mutations in this gene result in the autosomal dominant disorder, torsion dystonia 1. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG200389