

## Product datasheet for **RG210887**

### **DORFIN (RNF19A) (NM\_183419) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	DORFIN (RNF19A) (NM_183419) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	RNF19A
Synonyms:	RNF19
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG210887 representing NM\_183419  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGCAAGAACAAGAAATAGGTTTTATCTCTAAATAAATGAAGGGCTGTGTGTAACACTGACCCTGTCT  
 CAATTCTAACAAAGCATTTTAGACATGAGTTTACATCGGCAAAATGGTTTCAGATCGAGATCTTCAGTCCTC  
 TGCTTCATCTGTGAGCTTGCCTTCAGTCAAAAAGGCACCCAAAAAAGAAGAATTTCAATAGGCTCCCTG  
 TTTCCGAGGAAAAAGATAACAAACGTAATCAAGGGAGCTAAATGGCGGGTGGATGGAATGCAAGTA  
 TTGAAAGTATACATTCTGAAATGTGACTGATAAGAACTCCATTTTCTCTACAAATACCTCTTGACAA  
 TGGATTAACCTCCATCAGCAACAAATGGAGACTTCATAGAGTGCCTTTTGCCTTTTGCGCATTCT  
 AAAGACAGATTTCTGATATAATGACTTGTTCATCACAGATCTTGTGTGGATTGCTTACGACAATATTTAA  
 GGATAGAAATCTCTGAAAGCAGAGTTAATATTAGTTGCCAGAATGACTGAACGGTTTAAATCCCATGA  
 TATTTCGTTGATATTAAGTGATGATGTCTTGATGGAAAAATACGAAGAATTTATGCTTAGACGGTGGCTT  
 GTTGCAGATCCTGATTGTAGGTGGTGTCCAGCTCCAGACTGTGGATATGCTGTGATAGCATTGGATGTG  
 CCAGCTGTCCAAATTAACCTGTGGGCGAGAGGGCTGTGGAACAGAGTTTTGCTACCACTGTAAACAGAT  
 TTGGCACCCCAACCAGACCTGTGATGCTGCTCGACAAGAGAGAGCCAGAGCTTACGTTTGAAGACTATA  
 CGTTCTTCATCCATTAGTTATAGTCAAGAGTCTGGAGCAGCAGCTGATGATATAAAGCCATGTCCACGAT  
 GTGCTGCTTATAATAAAGATGAATGATGGGAGCTGCAATCACATGACATGTGCTGTTTGTGGTTGTGA  
 GTTTTGTGGTTGTGATGAAAGAAATCTCAGATTTGCATTATCTAAGTCCATCAGGATGACTTTTTTGG  
 GGAAGAAACCCCTGGAGCCGAAAGAAGAAATATTGTGGCACTGGGAACACTGGTTGGTCTCCTGTCG  
 GAATCGCTTAAATAGCTGGCATTGCTATTCCTGCAATGATTATTGGCATTCTGTGTATGTGGCCGCAA  
 GATTCACAATCGCTATGAAGGCAAGGATGTTTCAAAGCACAACCGAATTTGGCCATAGCAGGTGGTGTA  
 ACGTTGTCTGTAATCGTGTCTCCAGTAGTAGTGCAGTACTGTAGGTATCGGTGTTCTATTATGTTAG  
 CTTATGTCTATGGCGTAGTTCCAATTTCTCTTTGTCGAAGCGGAGTTGTGGAGTCTCAGCAGGCAATGG  
 AAAAGGAGTTAGGATTGAATTTGATGATGAAAATGATATAAATGTTGGTGGAACTAACACAGCTGTAGAC  
 ACAACATCAGTAGCAGAAGCAGACACAACCAAGCATAGGGGAGGGAAGTGTGGTGGGCTGACTGGCA  
 GTTTGAGTGCAAGTGAAGCCACATGGATCGAATAGGAGCCATCCGAGACAACCTGAGTGAACGGCCAG  
 CACCATGGCACTAGCTGGAGCCAGTATAACGGGGAGTCTGTGAGGAAGTCCATGGTAAACTGTTTTAAC  
 AGGTTGGAAGTACAAGCAGATGTACAGAAAGAACGGTACAGTCTAAGTGGAGAATCTGGCACAGTCAGCT  
 TGGGAACAGTTAGTGATAATGCCAGCACCAAGCAATGGCAGGATCCATTCTGAATTCCTACATCCCAT  
 GGACAAAGAAGGCAACAGTATGGAGGTGCAAGTAGATATTGAGTCAAAGCCATCCAAATTCAGGCACAAC  
 AGTGGAAGCAGTAGTGTGGATGATGGCAGTGCCACCCGAAGTCATGCTGGCGGTTTCATCCAGTGGCTTGC  
 CTGAAGGTAATCTAGTGCCACCAAGTGGTCCAAAGAAGCAACAGCAGGGAAAAAATCAAAAAGTGGTAA  
 ACTGAGGAAAAAGGGTAACATGAAGATAAATGAGACGAGAGAGGACATGGATGCACAGTTGTTAGAACAA  
 CAAAGCACGAACCAAGTGAATTTGAGGCTCCATCCCTCAGTGACAGTATGCCTTCTGTAGCAGATTCTC  
 ACTCTAGTCATTTTCTGAATTTAGTTGTTCTGACCTAGAAAGCATGAAAACCTTCTGTAGTCATGGTTC  
 CAGTGATTATCACACCCGCTTTGCTACTGTTAACATTCTCCTGAGGTAGAAAATGACCGTCTGGAAAA  
 TCCCCACATCAGGTAGCATTCTGTGGTTACCCAAACTGCTTCTGTTTCAAGAAGTTTACAGTTGAATC  
 ATATTGCTGAAGAACATGGTAACATGGAATAAAACCTAATGTTGATTTATTTTTGGCGATGCACTAAA  
 AGAAACAAATAACAACCACTCACATCAGACAATGGAATTAAGTTGCAATTCAGACTGAAATT

**ACCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA

Protein Sequence: >RG210887 representing NM\_183419  
Red=Cloning site Green=Tags(s)

MQEQEIGFISKYNEGLCVNTDPVSILTSILDMSLHRQMGSDRDLQSSASSVSLPSVKKAPKKRRISIGSL  
FRRKKDNKRKSRELNGGVDGSIASIESIHSEMCTDKNSIFSTNTSSDNLTSISKQIGDFIECPLCLRHS  
KDRFPDIMITCHHRSCVDCLRQYLRIEISESRVNI SCPECTERFNPHDIRLILSDDVLMKEYEFLRRL  
VADPDCRWCAPDCGYAVIAFGCASCPLTCGREGCGTEFCYHCKQIWHPNQTCDAARQERAQSLRLRTI  
RSSSISYSQESGAAADDIKPCPRCAAYIIKMNDGSCNHMTCAVCGCEFCWLCMKEISDLHYLSPSGCTFW  
GKKPWSRKKKILWQLGTLVGAPVGI ALIAGIAIPAMIIGIPVYVGRKIHNRYEKDVSKHKRNLA IAGGV  
TLSVIVSPVVAAVTVGIGVPIMLAYVYGVVPI SLCRSGGCGVSAGNGKGVRIEFDENDINVGGTNTAVD  
TTSVAEARHNPSIGEGSVGGLTGSL SASGSHMDRIGAIRDNLSETASTMALAGASITGSLSGSAMVNCFN  
RLEVQADVQKERYSLSGESGTVSLGTVSDNASTKAMAGSILNSYIPLDKEGNSMEVQVDIESKPSKFRHN  
SGSSSVDDGSATRSHAGGSSSGLPEGKSSATKWSKEATAGKSKSGKLRKKGNMKINETREDMDAQLLEQ  
QSTNSSEFEAPSLSDSMPSVADSHSHFSEFSCSDLESMTSCSHGSSDYHTRFATVNILPEVENDRLN  
SPHQCSISVVTQTASCSEVSQLNHIAEEHGNGIKPNVDLYFGDALKETNNNHSHQTMELKVAIQTEI

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI

Cloning Scheme:

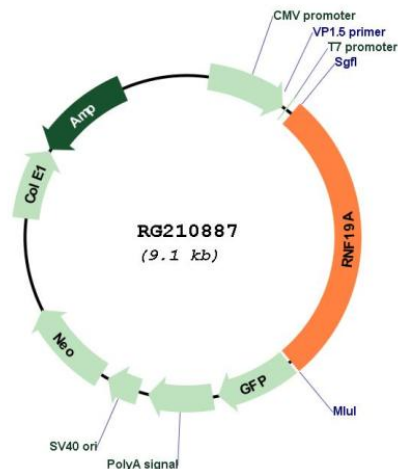
Cloning sites used for ORF Shutting:



*EcoRI* *BamHI* *KpnI* *RBS* *Kozac Consensus* *SgfI* *AscI*  
 CTATAGGGCGGCCGGGAATTCGTGACTGGATCCGGTACCGAGSAGATCTGCCGCCGATCGCCGGCGCCAGATCT

*HindIII* *NheI* *RsrII* *MluI* *NotI* *XhoI* *GFP Tag*  
 CAAGCTTAAGCTAGCTAGCGGACCG ACG CGT ACG CGG CCG CTC GAG ATG GAG AGC GAC --- --- ---  
 T R T R P L E M E S D - - -

*PmeI* *FseI*  
 --- --- GAA GAA AGA GTT TAA ACGGCCGGCCGGGAGCT  
 - - E E R V Stop

**Plasmid Map:**


**ACCN:** NM\_183419

**ORF Size:** 2514 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\\_183419.4](#)

**RefSeq Size:** 4366 bp

**RefSeq ORF:** 2517 bp

**Locus ID:** 25897

**UniProt ID:** [Q9NV58](#)

**Cytogenetics:** 8q22.2

**Protein Families:** Druggable Genome, Transcription Factors, Transmembrane

**Gene Summary:** This gene encodes a member of the ring between ring fingers (RBR) protein family, and the encoded protein contains two RING-finger motifs and an in between RING fingers motif. This protein is an E3 ubiquitin ligase that is localized to Lewy bodies, and ubiquitylates synphilin-1, which is an interacting protein of alpha synuclein in neurons. The encoded protein may be involved in amyotrophic lateral sclerosis and Parkinson's disease. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jul 2013]