

Product datasheet for **RG211570**

REST (NM_005612) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	REST (NM_005612) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	REST
Synonyms:	DFNA27; GINGF5; HGF5; NRSF; WT6; XBR
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG211570 representing NM_005612 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCCACCCAGGTAATGGGGCAGTCTTCTGGAGGAGGAGGGCTGTTTACCAGCAGTGGCAACATTGGAA
TGGCCCTGCCTAACGACATGTATGACTTGCATGACCTTTCCAAGCTGAACTGGCCGCACCTCAGCTTAT
TATGCTGGCAAATGTGGCCTTAAGTGGGAAGTAAATGGCAGCTGCTGTGATTACCTGGTCGGTGAAGAA
AGACAGATGGCAGAACTGATGCCGGTTGGGATAACAACTTTTCAGATAGTGAAGAAGGAGAAGGACTTG
AAGAGTCTGCTGATATAAAAGGTGAACCTCATGGACTGGAAAACATGGAAGTGAAGTTTGAAGTCTCAG
CGTCGTAGAACCTCAGCCTGATTTGAGGCATCAGGTGCTCCAGATATTTACAGTTCAAATAAAGATCTT
CCCCCTGAAACACCTGGAGCGGAGGACAAAGGCAAGAGCTCGAAGACCAACCCCTTCGCTGTAAGCCAT
GCCAATATGAAGCAGAATCTGAAGAACAGTTTGTGCATCACATCAGAGTTCACAGTGCTAAGAAATTTT
TGTGGAAGAGAGTGCAGAGAAGCAGGCAAAAGCCAGGGAATCTGGCTCTTCCACTGCAGAAGAGGGAGAT
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ACCTGAAACACCACACCAGAGCTGGGGATAATGAGCGAGTCTACAAGTGTATCATTTGCACATACACAAC
AGTGAGCGAGTATCACTGGAGGAAACATTTAAGAAACATTTTCCAAGGAAAGTATACACATGTGGAAAA
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AAAAAACAGAAATAGAACAAACAAAAATAAAGGGGATGTGGCTGAAAAGAAAAATGAAAAGTCCGTCAA
AGCAGAGAAAAGAGATGTCTCAAAAGAGAAAAAGCCTTCTAATAATGTGTCAGTATCCAGTGACTACC



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AGAACTCGAAAATCAGTAACAGAGGTGAAAGAGATGGATGTGCATACAGGAAGCAATTCAGAAAAATTCAGTAAAACCTAAGAAAAGCAAAAAGGAAGCTGGAAGTTGACAGCCATTCTTTACATGGTCTGTGAATGATGAGGAATCTTCAACAAAAAGAAAAAGAAAGGTAGAAAAGCAAAATCCAAAAATAATAGTCAGGAAGTGCCAAAAGGTGACAGCAAAGTGGAGGAGAAATAAAAAGCAAAATCTTGCATGAAAAAAGTACAAAAGAAAAACTCTGAAAAATAAATCAAGTAAGAAAAGCAGTAAGCCTCCTCAGAAGGAACCTGTTGAGAAGGGATCTGCTCAGATGGACCCTCCTCAGATGGGGCCTGCTCCACAGAGGCGGTTCCAGAAGGGGCCGTTCAGGTGGAGTCCACCTCCCATGGAGCATGCTCAGATGGAGGTGCCAGATACGGCCTGCTCCTGACGAGCTGTTCAGATGGAGGTGTTTCAGGAGGGGCTGCTCAGAAGGAGCTGCCTCCCGTGGAGCCTGCTCAGATGGTGGGTGCCCAAATTGTAAGTGTCTCACATGGAGCTGCCTCCTCCCATGGAGACTGCTCAGACGGAGTTGCCCAAATGGGGCCTGCTCCCATGGAACCTGCTCAGATGGAGGTGCCAGGTAGAATCTGCTCCCATGCAGGTGGTCCAGAAGGAGCCTGTTTCAGATGGAGCTGTCTCCTCCCATGGAGGTGGTCCAGAAGGAGCCTGTTTCAGATAGAGCTGTCTCCTCCCATGGAGGTGGTCCAGAAGGAACCTGTTAAGATAGAGCTGTCTCCTCCCATAGAGGTGGTCCAGAAGGAGCCTGTTTCAGATGGAGTGTCTCCTCCCATGGGGTGGTCCAGAAGGAGCCTGCTCAGAGGGAGCCACCTCCTCCAGAGAGCCTCCCTTACATGGAGCCAATTTCCAAAAAGCCTCCTCTCCGAAAAGATAAAAAGGAAAAGTCTAACATGCAGAGTGAAAGGGCACGGAAGGAGCAAGTCTTATTGAAGTTGGCTTAGTGCCTGTTAAAGATAGCTGGCTTCTAAAGGAAAAGTGAAGCACAGAGGATCTCTACCACCATCACCACACTGCCAAAGGAAAATTTAAGAGAAGAGGCATCAGGAGACAAAAATTAACAACACAGGTGAGGAAATAAAGAAGCCCTCTTCAGAAAGTAGGAGCAGAAGAGGCAGATGAGAGCCTACCTGGTCTTGCTGCTAATATCAACGAATCTACCCATATTTTCATCCTCTGGACAAAACCTTGAATACGCCAGAGGGTGAACCTTAAATGGTAAACATCAGACTGACAGTATAGTTTGTGAAATGAAAATGGACTGATCAGAACACAAGAGAAGTCTCACTGGTATAAATTCACAGTTGAAGAACCAGTTTACCAATGCTTCCCCTTCAGCAGTAGAAGAACGTGAAGCAGTGTCCAAAACCTGCACTGGCATCACCTCCTGCTACAATGGCAGCAAATGAGTCTCAGGAAATTTGATGAAGATGAAGGCATCCACAGCCATGAAGGAAGTACCTAAGTACAACATGTCAGAGGTAGTGATGATTCTGGATTGCATGGGGCTCGGCCAGTCCACAAGAATCTAGCAGAAAAATGCAAAGGAAGCCTTGGCAGTCAAAGCGGCTAAGGGAGATTTGTTTGTATCTTCTGTGATGTTCTTTCAGAAAGGAAAAAGATTACAGCAAACCTCAATCGCCATTTGGTTAATGTGTACTATCTTGAAGAAGCAGCTCAAGGGCAGGAG

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG211570 representing NM_005612
 Red=Cloning site Green=Tags(s)

MATQVMGQSSGGGLFTSSGNIGMALPNDMYDLHDL SKAELAAPQLIMLANVALTGEVNGSCCDYLVGEE RQMAELMPVGDNNFSDSEEGLEESADIKGEPHLENMELRLEL SVVEPQPVFEASGAPDIYSSNKDL PPETPGAEDKGGSSKTKPFRCKPCQYEAEESEQFVHHIRVHSAKFFVEESAQAKARESGSSTAEEDG FSKGPIRCDRCGYNTNRYDHYTAHLKHHTRAGDNERVYKCIICTYTTVSEYHWRKHLRNHFPRKVYTCGK CNYFSDRKNNYVQHVRHTHTGERPYKCELCYSSSQKTHL TRHMRTHSGEKPFKCDQCSYVASNQHEVTRH ARQVHNGPKPLNCPHCDYKTADRSNFKKHVELHVNPRQFNCPVCDYAASKCNLQYHFKSKHPTCPNKTMDVSKVKLKKTKKREADLPDNITNEKTEIEQTKIKGDVAGKKNEKSVKAEKRDVSKKPKSPNNVSIQVTT RTRKSVTEVKEMDVHTGNSSEKFSKTKKSKRKLVDVSHSLHGPVNDEESSTKTKKVESKSKNNSQEVPK GDSKVEENKQNTCMKSKTKKTLKNKSSKSKPPQKEPVEKGSQMPPQMPAPTEAVQKGPVQVEL PPPMEHAQMEGAQIRPAPDEPVQMEVVQEGPAQKELLPPVEPAQMVAQIVLAHMELEPPMETAQTEVAQ MGPAPMEPAQMEVAQVESAPMQVVQKEPVQMELESPPMVVQKEPVQIELSPPMEVVQKEPVKIELSPPIE VVQKEPVQMELESPPMGVVQKEPAQREPPPPREPPLHMEPI SKKPPLRKDKKEKSNMQSERARKEQVLEI VGLVPKDSWLLKESVSTEDLSPPSPPLPKENLREEASGDQKLLNTGEGNKEAPLQKVGAEAEDESLPGLA ANINESTHISSSSQNLNTEPEGETLNGKHQTDIVCEMKMDTDQNTRENLTGINSTVEEPVSPMLPPSAVE EREAVSKTALASPPATMAANESQIDEDEGIHSHEGSDLSDNMSEGSDDSGLHGARPVPQESSRKNKAEALAVKAAKGDFVCIFCDRSFRKGDYSKHLNRHLVNVYYLEEAAQQQE

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_005612

ORF Size: 3291 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in *E. coli* are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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).

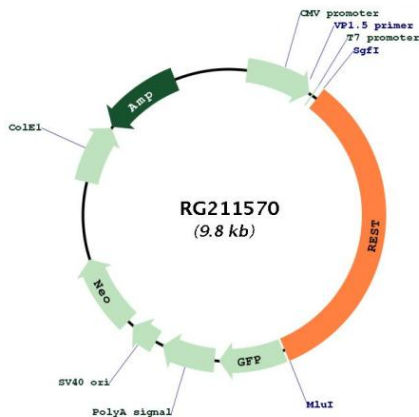
Reconstitution Method:

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_005612.3, NP_005603.2](#)
RefSeq Size: 3663 bp
RefSeq ORF: 3294 bp
Locus ID: 5978
UniProt ID: [Q13127](#)
Cytogenetics: 4q12
Domains: zf-C2H2
Protein Families: Transcription Factors
Protein Pathways: Huntington's disease
Gene Summary:

This gene was initially identified as a transcriptional repressor that represses neuronal genes in non-neuronal tissues. However, depending on the cellular context, this gene can act as either an oncogene or a tumor suppressor. The encoded protein is a member of the Kruppel-type zinc finger transcription factor family. It represses transcription by binding a DNA sequence element called the neuron-restrictive silencer element. The protein is also found in undifferentiated neuronal progenitor cells and it is thought that this repressor may act as a master negative regulator of neurogenesis. Alternatively spliced transcript variants have been described. [provided by RefSeq, May 2018]

Product images:



Circular map for RG211570