

Product datasheet for **SC318496**

REST (NM_005612) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	REST (NM_005612) Human Untagged Clone
Tag:	Tag Free
Symbol:	REST
Synonyms:	DFNA27; GINGF5; HGF5; NRSF; WT6; XBR
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene sequence for NM_005612 edited
ACCGAGGAAGGCCGAATACAGTTATGGCCACCCAGGTAATGGGGCAGTCTTCTGGAGGAG
GAGGGCTGTTTACCAGCAGTGGCAACATTGGAATGGCCCTGCCTAACGACATGTATGACT
TGCATGACCTTTCCAAAGCTGAACTGGCCGCACCTCAGCTTATTATGCTGGCAAATGTGG
CCTTAACTGGGGAAAGTAAATGGCAGCTGCTGTGATTACCTGGTCGGTGAAGAAAGACAGA
TGGCAGAAGTATGATGCCGTTGGGGATAACAACCTTTTCCAGATAGTGAAGAAGGAGAAGGAC
TTGAAGAGTCTGCTGATATAAAGGTGGACCTCATGGACTGGAAAACATGGAAGTGAAGAA
GTTTGGAACTCAGCGTCGTAGAACCTCAGCCTGTATTTGAGGCATCAGGTGCTCCAGATA
TTTACAGTTCAAATAAAGATCTTCCCCTGAAACACCTGGAGCGGAGGACAAAGGCAAGA
GCTCGAAGACCAAACCTTTTCGCTGTAAGCCATGCCAATATGAAGCAGAATCTGAAGAAC
AGTTTGTGCATCACATCAGAGTTCACAGTGCTAAGAAATTTTTTGTGGAAGAGAGTGCAG
AGAAGCAGGCAAAAGCCAGGGAATCTGGCTCTTCCACTGCAGAAGAGGGAGATTTCTCCA
AGGGCCCCATTTCGCTGTGACCGCTGCGGCTACAATACTAATCGATATGATCACTATACAG
CACACCTGAAACACCACACCAGAGCTGGGGATAATGAGCGAGTCTACAAGTGTATCATT
GCACATACACAACAGTGAGCGAGTACTGGAGGAAACATTTAAGAAACCATTTTCCAA
GGAAAGTATACACATGTGGAAAATGCAACTATTTTTTCCAGCAGAAAAACAATATGTTT
AGCATGTTAGAAGTCTACAGGAGAACGCCCATATAAATGTGAACTTTGCTTACTCAA
GTTCTCAGAAGACTCATCTAACTAGACATATGCGTACTCATTGAGTGAAGGCCATTTA
AATGTGATCAGTGCAGTTATGTGGCCTTAATCAACATGAAGTAACCCGCCATGCAAGAC
AGTTTCACAATGGGCCTAAACCTCTTAATTGCCACACTGTGATTACAAAACAGCAGATA
GAAGCAACTTCAAAAACATGTAGAGCTACATGTGAACCCACGGCAGTTCAATTGCCCTG
TATGTGACTATGCAGCTTCCAAGAAGTGAATCTACAGTACTTCAAATCTAAGCATC
CTACTTGTCTAATAAAAACATGGATGTCTCAAAAGTGAAGTAAAGAAAACCAAAAAAC
GAGAGGCTGACTTGCCTGATAATATTACCAATGAAAAACAGAAATAGAACAAACAAAAA
TAAAAGGGGATGTGGCTGGAAAGAAAAATGAAAAGTCCGTCAAAGCAGAGAAAAGAGATG
TCTCAAAAGAGAAAAAGCCTTCTAATAATGTGTCAGTGTCCAGGTGACTACCAGAACTC
GAAAATCAGTAACAGAGGTGAAAGAGATGGATGTGCATACAGGAAGCAATTCAGAAAAAT



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TCAGTAAACTAAGAAAAGCAAAAGGAAGCTGGAAGTTGACAGCCATTCTTTACATGGTC
 CTGTGAATGATGAGGAATCTTCAACAAAAAGAAAAAGAGGTAGAAAGCAAATCCAAAA
 ATAATAGTCAGGAAGTGCCAAAGGGTGACAGCAAAGTGGAGGAGAATAAAAAGCAAATA
 CTTGCATGAAAAAGTACAAAGAAGAAAAGCTCTGAAAAATAAATCAAGTAAGAAAAGCA
 GTAAGCCTCCTCAGAAGGAACCTGTTGAGAAGGGATCTGCTCAGATGGACCCTCCTCAGA
 TGGGGCCTGCTCCACAGAGGCGGTTGAGAAGGGGCCATTTCAGGTGGAGCCGCCACCTC
 CCATGGAGCATGCTCAGATGGAGGGTGCCAGATACGGCCTGCTCCTGACGAGCCTGTTT
 AGATGGAGGTGGTTCAGGAGGGGCTGCTCAGAAGGAGCTGCTGCCTCCGTTGGAGCCTG
 CTCAGATGGTGGGTGCCCAAATTGACTTGCTCACATGGAGCTGCCTCCTCCCATGGAGA
 CTGCTCAGACGGAGGTTGCCAAATGGGGCCTGCTCCCATGGAACCTGCTCAGATGGAGG
 TTGCCAGGTAGAATCTGCTCCCATGCAGGTGGTCCAGAAGGAGCCTGTTTCCAGATGGAGC
 TGTCTCCTCCCATGGAGGTGGTCCAGAAGGAGCCTGTTTCCAGATAGAGCTGTCTCCTCCA
 TGGAGGTGGTCCAGAAGGAACCTGTTAAGATAGAGCTGTCTCCTCCCATAGAGGTGGTCC
 AGAAGGAGCCTGTTTCCAGATGGAGTTGTCTCCTCCCATGGGGTGGTTTCCAGAAGGAGCCTG
 CTCAGAGGGAGCCACCTCCTCCAGAGAGCCTCCCTTTCATGAGCAATTTCCAAAA
 AGCCTCCTCTCCGAAAAGATAAAAAGGAAAAGTCTAACATGCAGAGTGAAAGGGCACGGA
 AGGAGCAAGTCTTATTGAAGTTGGCTTAGTGCCTGTTAAAGATAGCTGGCTTCTAAAGG
 AAAGTGTAAAGCACAGAGGATCTCTCACCACCATCACCACCACTGCCAAAGGAAAATTTAA
 GAGAAGAGGCATCAGGAGACCAAAATTAATCAACACAGGTGAAGGAAAATAAGAAAGCCC
 CTCTTCAGAAAGTAGGAGCAGAAGAGGCAGATGAGAGCCTACCTGGTCTTGCTGCTAATA
 TCAACGAATCTACCCATATTTTCTCCTTGACAAAAGTGAATACGCCAGAGGGTGAAA
 CTTTAAATGGTAAACATCAGACTGACAGTATAGTTTGTGAAATGAAAATGGACACTGATC
 AGAACACAAGAGAGAATCTCACTGGTATAAATTCACAGTTGAAGAACCAGTTTCCACCA
 TGCTTCCCTCCTCAGCAGTAGAAGAACGTGAAGCAGTGTCCAAAAGTGCAGTGGCATCAC
 CTCTGCTACAATGGCAGCAAATGAGTCTCAGGAAATTGATGAAGATGAAGGCATCCACA
 GCCATGAAGGAAGTGACCTAAGTGACAACATGTGAGAGGGTAGTGATGATTCTGGATTGC
 ATGGGGCTCGGCCAGTTCCACAAGAATCTAGCAGAAAAATGCAAAGGAAGCGTTGGCAG
 TCAAAGCGGCTAAGGGAGATTTTGTGTTGATCTTCTGTGATCGTTCTTTCAGAAAGGGAA
 AAGATTACAGCAAACACCTCAATCGCCATTTGGTTAATGTGTACTATCTTGAAGAAGCAG
 CTCAAGGGCAGGAGTAATGAAACTTTGAACAAGGTTTCAGTTCTTAGTTTGAAGGTATA
 TTACATTTTATATTCATTTATGATAGCAGACAACCTTTTAAAGATTGC

Restriction Sites:

Please inquire

ACCN:

NM_005612

Insert Size:

3400 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 TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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:	<u>NM_005612.3</u> , <u>NP_005603.2</u>
RefSeq Size:	3663 bp
RefSeq ORF:	3294 bp
Locus ID:	5978
UniProt ID:	<u>Q13127</u>
Cytogenetics:	4q12
Domains:	zf-C2H2
Protein Families:	Transcription Factors
Protein Pathways:	Huntington's disease
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (1) represents the longer transcript. Variants 1 and 2 encode the same protein.</p>