

Product datasheet for **SC116634**

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
TGGCAGAAGTATGACCGTTGGGGATAACAACCTTTTCCAGATAGTGAAGAAGGAGAAGGAC
TTGAAGAGTCTGCTGATATAAAGGTGGACCTCATGGACTGGAAAACATGGAAGTGAAGAA
GTTTGGAACTCAGCGTCGTAGAACCTCAGCCTGTATTTGAGGCATCAGGTGCTCCAGATA
TTTACAGTTCAAATAAAGATCTTCCCCTGAAACACCTGGAGCGGAGGACAAAGGCAAGA
GCTCGAAGACCAAACCTTTGCTGTAAGCCATGCCAATATGAAGCAGAATCTGAAGAAC
AGTTTGTGCATCACATCAGAGTTCACAGTCTAAGAAATTTTTTGTGGAAGAGAGTGCAG
AGAAGCAGGCAAAAGCCAGGGAATCTGGCTCTTCCACTGCAGAAGAGGGAGATTTCTCCA
AGGGCCCCATTGCTGTGACCGCTGCGGCTACAATACTAATCGATATGATCACTATACAG
CACACCTGAAACACCACACCAGAGCTGGGGATAATGAGCGAGTCTACAAGTGTATCATT
GCACATACACAACAGTGAGCGAGTACTGGAGGAAACATTTAAGAAACCATTTTCCAA
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GTTCTCAGAAGACTCATCTAACTAGACATATGCGTACTCATTGAGTGAAGGCCATTTA
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TCAGTAAACTAAGAAAAGCAAAAGGAAGCTGGAAGTTGACAGCCATTCTTTACATGGTC
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ATAATAGTCAGGAAGTGCCAAAGGGTGACAGCAAAGTGGAGGAGAATAAAAAGCAAATA
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CTTTAAATGGTAAACATCAGACTGACAGTATAGTTTGTGAAATGAAAATGGACACTGATC
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CTCCTGCTACAATGGCAGCAAATGAGTCTCAGGAAATTGATGAAGATGAAGGCATCCACA
GCCATGAAGGAAGTGACCTAAGTGACAACATGTCAGAGGGTAGTGATGATTCTGGATTGC
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TCAAAGCGGCTAAGGGAGATTTTGTGTTGATCTTCTGTGATCGTTCTTTCAGAAAGGGAA
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CTCAAGGGCAGGAGTAATGAAACTTTGAACAAGGTTTCAGTTCTTAGTTTGAAGGTATA
TTACATTTTATATTCATTTATGATAGCAGACAACCTTTTAAAGATTGC
    
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Restriction Sites: NotI-NotI

ACCN: NM_005612

Insert Size: 4700 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](#)

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_005612.1</u> , <u>NP_005603.1</u>
RefSeq Size:	6635 bp
RefSeq ORF:	3267 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>