

## Product datasheet for **SC109091**

### GERP (TRIM8) (NM\_030912) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	GERP (TRIM8) (NM_030912) Human Untagged Clone
Tag:	Tag Free
Symbol:	GERP
Synonyms:	GERP; RNF27
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >OriGene ORF within SC109091 sequence for NM\_030912 edited (data generated by NextGen Sequencing)

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ATGGCGGAGAATTGGAAGAACTGCTTCGAGGAGGAGCTCATCTGCCCTATCTGCCTGCAC
GTTTTCTGGAGCCAGTGCAGCTGCCGTGCAAACAACCTTCTGCCGGGGCTGCATCGGC
GAGGCGTGGGCCAAGGACAGCGCCTCGTACGCTGCCAGAGTGAACCAAGCCTACAAC
CAGAAGCCGGGCTGGAGAAGAACCTGAAGCTACCAACATCGTGGAGAAGTTCAATGCC
CTGCACGTGGAGAAGCCGCCGGCGCTGCACCTGCGTGTCTGCCCGCGGCCCGCCCG
CTGCCCGCGCAGAAGTCTGCCTGCGCTGCGAGGCGCCCTGCTGCCAGTCCCACGTGCAG
ACGCACCTGCAGCAGCCCTCCACCGCCCGGGCACCTCCTGGTGGAGGCGGACGACGTG
CGGGCCTGGAGCTGCCCGCAGCACAACGCCTACCGCCTTACCCTGCGAGGCGGAGCAG
GTGGCCGTGTGCCAGTACTGCTGCTACTACAGCGCGCGCATCAGGGACACTCGGTGTGC
GACGTGGAGATCCGAAGGAATGAAATCCGGAAGATGCTCATGAAGCAGCAGGACCGGCTG
GAGGAGCGAGAGCAGGACATTGAGGACCAGCTGTACAACTCGAGTCAGACAAGCGCCTG
GTGGAGGAGAAAGTGAACCAACTGAAGGAGGAAGTTCCGGTGCAGTACGAGAAGTGCAC
CAGCTGCTGGACGAGGACCTGCGGCAGACAGTGGAGGCTCTAGACAAGGCCAGGCCAAG
TTCTGCAGCGAGAACGCAGCGCAGGCGCTGCACCTCGGGGAGCGCATGCAGGAGGCCAAG
AAGCTGCTGGGCTCCCTGCAGCTGCTCTTTGATAAGACGGAGGATGTCAGCTTATGAAG
AACACCAAGTCTGTGAAAATCCTGATGGACAGGACCCAGACCTGCACGAGCAGCAGCCTT
TCCCCACTAAGATCGGCCACCTGAACTCCAAGCTTCTCCTGAACGAAGTGGCCAAGAAG
GAGAAGCAGCTGCGGAAAATGCTAGAAGGCCCTTACGACGCGCGGTGCCCTTCTGCAG
AGTGTCCCCCTGTACCCTTGGCGGTGAGCAGCTCTGGGGCGGAAAAGCGCAAGCACTCA
ACGGCCTTCCCAGAGGCCAGTTTCTAGAGACGTGCTCGGGCCCTGTGGGCGGCCAGTAC
GGGGCGGCGGCCACAGCCAGCGGTGAGGGCCAGTCTGGGACGCCCTGGGGCCCTGCAGC
TCCACGCAGCACTTGGTGGCCCTGCCGGGCGGCCCAACCAAGTGCACACTAAGCCCCGTG
TCCCCCATCGCAGTATCCCAATGGCTCCGCCGCCAGCAGCCATGCTCCCCAGTAT
GGCGGCCCAAGATTCTCGTCTGTTCTGTGGACAAGTGTACTGTTCTTCCGTGGCCAAC
CATGGCGGCCACAGCCCTACCCCGCTCCGGCCACTTCCCTGGACAGTGCCTCGCAG
GAGTACTCACACCGCTCCCGCCACACCCTCCGTCCCCAGTCCCTTCCAGCCTGGCG
GTCAGAGACTGGCTTACGCCTCCAGCAGCCCGGCCACCAGGATTTCTACAGGGTGTAT
GGGCGCCGTCCACCAAACTACTGACGAGCTAA
    
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Clone variation with respect to NM\_030912.2

**5' Read Nucleotide Sequence:**

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>OriGene 5' read for NM_030912 unedited
TATACGACTCACTATAGGGCGGCCGGAATTCGGCAGCAGGCGGCTCCGGACGGACCCCC
GGGGCTGGGAGTCCGGGAGGCCCTGCCCGGCCCTGCCCGGCCGCCATGGCGGAGA
ATTGGAAGAAGTCTTCGAGGAGGAGCTCATCTGCCCTATCTGCCTGCACGTTTTCTGG
AGCCAGTGCAGCTGCCGTGCAAACAACCTTCTGCCGGGCTGCATCGGCGAGGCGTGGG
CCAAGGACAGCGCCTCGTACGCTGCCAGAGTGAACCAAGCCTACAACCAGAAGCCGG
GCCTGGAGAAGAACCTGAAGCTACCAACATCGTGGAGAAGTTCAATGCCCTGCACGTGG
AGAAGCCCGCGCGGCGCTGCACCTGCGTGTCTGCCCGCGGCCCGCCCGCTGCCCGCGC
AGAAGGTCTGCCTGCGCTGCGAGGCGCCCTGCTGCCAGTCCCACGTGCAGACGCACCTGC
AGCAGCCCTCCACCGCCCGGGCACCTCCTGGTGGAGGCGGACGACGTGCGGGCTGGA
GCTGCCCGCAGCACAACGCCTACCGCCTTACCCTGCGAGGCGGAGCAGGTGGCCGTGT
GCCAGTACTGCTGCTACTACAGCGCGCGCATCANGGACACTCGTGTGCGACGTGGAGA
TCCGAAGGAATGAAATCCGGAAGATGCTCATGAAGCANCANGACCGCTGGAGGAGCGAG
AGCAGGACATTGAGGACCAGCTGTACAACTCGAGTCAGCAAGCGCCTGGTGGANGGAGA
AGTGACCACTGGGGAAGGAAGTCCGGTGCAGTACGAGAAGTGCACCGCTGCTGGACGAGG
ACTGCGCAACANGGNAGGTCTAAACAGGCCAGCCAGTCTGCACGAACNCCACGCAGC
GCTCCCTTGGGGAGCCATGCAGAGGCAAACTGCTGGCTCTGCACCTGTCTGATAAACGAG
GAGATA
    
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<b>3' Read Nucleotide Sequence:</b>	>OriGene 3' read for NM_030912 unedited NGGGTGGTTNNGGGNNNNNNNTTATTTAATTNNNATGGTTTGTTCATCTTTATCCCTT GTTGTTATNATAATTTTATTATTTGCTTTTGTCTGGTCACTATCATTGGCGAAGTTCCT TTTCCCTTTCTGGGACTAGGGGTCTGTCTTTAAAAGATCCACTCTGAGCTGAAGTGC CAAAACGCTTGAGAATGGCCTTTGAACTCCGTCTGGGAAGATGGTGAGGAGAAGGAAGC AGGAGAAATCATTCTTGGTTTAAAAAATTTAAAAAACAACAAAAGTCCGACAATC TAAAGGTCAATTCCTTACTCGATCAGTGATCAAACCTGCCAAAAGGAAAACAAGAGAGAA ACAAGCCCGGGCCCTGGGCGTTCTCCCGGGTGGGTAAAGAGGGTGGGACCCCAAGC TTTCAAGGAAGCCGAGGTTCTTCCAGCCACGGGGTGTGAAGGGGAAGGAGTAGAGGAA AAAAGGAGAAACAGAGAGAGAGCTCAGCGCCTTGACACAGACACTTTCCCATCTCCAGG CCACCTGCCGCTCTGGCCAAGCCAGCTCCCACTGTACCTCTGCGTCCAGGAGATTCAT AATAAAAAAATCAAAAACAAGCCAAAACAAAACAAAATCCAAAAGGAAAATCAC CTGGGGCAATGGCAATGAACGACACAAGGGCACGCCGACGGAACGGTATAACGCGCACG TTCTCTTGGCTGGCATCACCCCCCAACCCCGGGGGCCTGGGGAGGCAAAAATTCCT CCACCCGACCCCTCCCTGCCTTGGGCGTTACCCCTCCCTCCCTACCTCTCTC GCTCGGACCCGCTTTTCCCATTCACTCCCCCGCACTCAAATCCTTCGGTGGCGCCGG TCCTGTCTTCGGAGAGCCTTCAAAACCTTATCCTTCTTCCACCCACCCACTCTCGCC CCAAGAGCACTACGTCGGAAGTGAATAGATG
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_030912
<b>Insert Size:</b>	2330 bp
<b>OTI Disclaimer:</b>	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 <a href="mailto:custsupport@origene.com">custsupport@origene.com</a> 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. <a href="#">More info</a>
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<a href="#">NM_030912.1</a> , <a href="#">NP_112174.1</a>

RefSeq Size: 2645 bp

RefSeq ORF: 1656 bp

Locus ID: 81603

UniProt ID: [Q9BZR9](#)

Cytogenetics: 10q24.32

Domains: RING

**Gene Summary:** This gene encodes a member of the tripartite motif (TRIM) protein family. Based on similarities to other proteins, the encoded protein is suspected to be an E3 ubiquitin-protein ligase. Regulation of this gene may be altered in some cancers. Mutations resulting in a truncated protein product have been observed in early-onset epileptic encephalopathy (EOEE). [provided by RefSeq, Sep 2016]

Transcript Variant: This variant (1) encodes the longer isoform (1).