

Product datasheet for SC117195

Regucalcin (RGN) (NM_004683) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Regucalcin (RGN) (NM_004683) Human Untagged Clone
Tag:	Tag Free
Symbol:	Regucalcin
Synonyms:	GNL; HEL-S-41; RC; SMP30
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC117195 sequence for NM_004683 edited (data generated by NextGen Sequencing)

```

ATGTCTTCCATTAAGATTGAGTGTGTTTTGCCAGAGAAGTCCCGGTGTGGTGAGTCTCCA
GTATGGGAGGAAGTGTCCAAGTCTCTGCTCTTTGTAGACATTCCTGCAAAAAAGGTTTGC
CGGTGGGATTCATTACCAAGCAAGTACAGCGAGTGACCATGGATGCCCAAGTCAGCTCC
GTGGCTCTTCGCCAGTCGGGAGGCTATGTTGCCACCATTTGGAACAAAGTTCTGTGCTTTG
AACTGGAAGAACAATCAGCAGTTGTCTTGCCACGGTGGATAACGACAAGAAAAACAAT
CGCTTCAATGATGGGAAGGTGGATCCCGCCGGGAGGTACTTTGCTGGCACCATGGCTGAG
GAAACAGTCCAGCAGTTCTTGAGCGGCACCAGGGGGCCCTGACTCCCTCTTTCCTGAT
CACCACGTGAAAAAGTACTTTGACCAGGTGGACATTTCCAATGGTTTGGATTGGTCGCTA
GACCACAAAATCTTCTATTACATTGACAGCCTGTCTACTCCGTGGATGCCTTTGACTAT
GACCTGCAGACAGGACAGATCTCCAACCGAGAAGTGTTTACAAGCTAGAAAAGGAAGAA
CAAATCCCAGATGGAATGTGTATTGATGCTGAGGGGAAGCTCTGGGTGGCCTGTTACAAT
GGAGGAAGAGTGATTCGTTTAGATCCTGTGACAGGGAAAAGACTTCAAAGTGTGAAGTTG
CCTGTTGATAAAACAACCTCATGCTGCTTTGGAGGGAAGAATTACTCTGAAATGTATGTG
ACCTGCGCCCGGGATGGGATGGACCCCGAGGGTCTTTTGAGGCAACCTGAAGCTGGTGG
ATTTTCAAGATAACTGGTCTGGGGTCAAAGGAATTGCTCCCTACTCCTATGCGGGATGA

```

Clone variation with respect to NM_004683.4



[View online »](#)

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_004683 unedited
 GTCAATATTTGTATACGACTCACTATAGGCGGCCGCAATTCGCACGAGGGCAAACCTGCC
 AGCTCCCTGACCCGCCCTGGGGCCAGGGTATTGACATAAAGGACGGCCTTGCACTATTT
 CAACAGCCAGTTCTCTGAGGGTCACAAACCAAGGAGTGGAGGTGAGAGTGTCACTTTT
 TTGTTTTCTTTTTGAAAGATCATTGAGAAACACGTCCTGATCTCCCCTGCGACCATGT
 CTTCCATTAAGATTGAGTGTGTTTTGCCAGAGAAGTCCCGGTGTGGTGTGAGTCTCCAGTAT
 GGGAGGAAGTGTCCAACCTCTGTCTTTGTAGACATTCCTGCAAAAAAGTTTGGCCGT
 GGGATTCAATTCACCAAGCAAGTACAGCGAGTGACCATGGATGCCCAAGTCAAGTCCGTGG
 CTCTTCGCCAGTCCGGAGGCTATGTTGCCACCATTGGAACAAAGTTCTGTGCTTTGAACT
 GGAAAGAACAATCAGCAGTTGTCTTGGCCACGGTGGATAACGACAAGAAAAACAATCGCT
 TCAATGATGGGAAGTGGATCCCAGGGGAGGTACTTTGCTGGCACCATGGCTGAGGAAA
 CAGCTCCAGCAGTTCTTGGAGCGCACAGGGGGCCCTGTACTCCCTTTTCTGATCACC
 ACGTGAAAAAGTACTTTGACCAGGTGGACATTTCCAATGGTTGGATTGGTCGCTAGACC
 ACANAATCTTCTATTACATTGACAGCCTGTCTACTCCGTGGATGCCTTTGACTATGACC
 TGCAGACAGGACAGATCTCCACCGCCAGAAGTGTACCAGCTATGAAAGGAAGAACAC
 ATCCAGATGGAATGTGTATTGATGCTGAGGNGAAGCTCTTGGTGGCCTGTACAATGGAG
 GAAGAGTGAATCGCTTAAACCTGG

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_004683 unedited
 CCGCGGGCCGAATCTAGNATCGAGTTTTTTTTTTTTTTTTTTTTGGGGTAGTGGATAGATT
 CATTATCTTGTGGGGTTGGTTTCATGAATGTATATATGTGACAAATTTGTCAAATT
 ATACACTTTAAATATGTACAGGCCAATTATAACTCAATAAAGCTATTTTTAAAATAAGTA
 TTCTTTCAAAGAGACATATTACTTTTACATCCAGTAGGTGGCAGCTGGAACCATGGATT
 TTGACAGCATGTTTGTAGTCTAACCTCCAGCCGATTTTTAGTTTGTAAAATAACATATAG
 GAGATGAAATATCTATGTAGTTAGTTAGCATTGTGGTATATTTTATAAGATTGTGATGA
 AAATAAAAAGGAACATAATAGGTCATTACCAGGTTACTATTTATTGTTCCTTGAAGCTTT
 AATATAGTTAAGTATGAAATGCAGAATCAAGAAGAGATATGTACCCACCCACCCTGGCAA
 TTTACAAGAATCAAGAGGCTGATTGACAGTTGAACGATTTCTCGCCCTTCTATAGTACC
 TTTTACAGAAAGCCTTATAAGTGTGTTATCAAAACCACCTGTACCCCTTGTAAAAATG
 CTCTGCCTTTTAAAAGTTGTAATTTAAACTTAAACGCTGTTAATAAAATCATTGCCTCAT
 TTTTCTTTCTAACTAGATTGAAATTTCAAGCCAGAAATCTCTAGTTGTCTTCAGAGCTC
 CCTCTGGCAGGAAAGAAGAACTGCTCTCATCCCGCATAAGAGTAGGGAGCAATTCCTTTG
 ACCCCAGACCAGTATCTTGAATTTCCACCACCTCAGGTTGCCTCAAAGACCCTCGGGG
 TCCTCCCATCCCGGCGCAGGTACATATTANAATATTTTTTTCTCAAGCGCATGAAG
 TGTTTATCACAGGCACCTTCATTTGAACCTTTTCTGCACAGACTAACGAATATCTCCTT
 CT

Restriction Sites:

NotI-NotI

ACCN:

NM_004683

Insert Size:

2000 bp

OTI Disclaimer:

Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

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_004683.4](#), [NP_004674.1](#)

RefSeq Size: 1635 bp

RefSeq ORF: 900 bp

Locus ID: 9104

UniProt ID: [Q15493](#)

Cytogenetics: Xp11.3

Domains: SMP-30

Gene Summary: The protein encoded by this gene is a highly conserved, calcium-binding protein, that is preferentially expressed in the liver and kidney. It may have an important role in calcium homeostasis. Studies in rat indicate that this protein may also play a role in aging, as it shows age-associated down-regulation. This gene is part of a gene cluster on chromosome Xp11.3-Xp11.23. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Sep 2013]

Transcript Variant: This variant (1) differs in the 5' UTR compared to variant 2. Variants 1 and 2 encode the same isoform (1).