

## Product datasheet for **RG236723**

### Regucalcin (RGN) (NM\_001282849) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Regucalcin (RGN) (NM_001282849) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Regucalcin
Synonyms:	GNL; HEL-S-41; RC; SMP30
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG236723 representing NM_001282849. Blue=ORF Red=Cloning site Green=Tag(s)

```
GCTCGTTTAGTGAACCGTCAGAATTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGTCTTCCATTAAGATTGAGTGTGTTTTGCCAGAGAACTGCCGGTGTGGTGAGTCTCCAGTATGGGAG
GAAGTGTCCAACCTCTGCTCTTTGTAGACATTCCTGCAAAAAGGTTTGCCGGTGGGATTCATTCACC
AAGCAAGTACAGCGAGTGACCATGGATGCCCCAGTCAGCTCCGTGGCTCTTCGCCAGTCGGGAGGCTAT
GTTGCCACCATTGGAACAAAGTTCTGTGCTTTGAACTGGAAGAACAATCAGCAGTTGTCTTGGCCACG
GTGGATAACGACAAGAAAACAATCGCTTCAATGATGGGAAGGTGGATCCCGCCGGGAGTACTTTGCT
GCCAACCCGAGAAGTGTTCACAAGCTAGAAAAGGAAGAACAATCCAGATGGAATGTGTATTGATGCT
GAGGGGAAGCTCTGGGTGCCTGTTACAATGGAGGAAGAGTGATTCGTTTAGATCCTGTGACAGGGAAA
AGACTTCAAACCTGTGAAGTTGCCTGTTGATAAAACAATTCATGCTGCTTTGGAGGGAAGAATTACTCT
GAAATGTATGTGACCTGCGCCCGGGATGGGATGGACCCCGAGGGTCTTTTGGAGCAACCTGAAGCTGGT
GGAATTTTCAAGATAACTGGTCTGGGGTCAAAGGAATTGCTCCCTACTCCTATGCGGGA
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
```



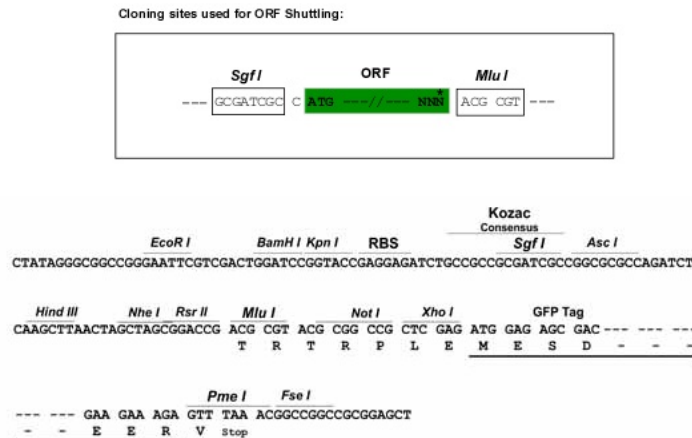
[View online »](#)

**Protein Sequence:** >Peptide sequence encoded by RG236723  
 Blue=ORF Red=Cloning site Green=Tag(s)

MSSIKIECVLPENCRGESPWEEVSNLLFVDIPAKKVCRWDSFTKQVQRVMDAPVSSVALRQSGGY  
 VATIGTKFCALNWKEQSAVVLATVDNDKKNRNFNDGKVPAGRYFAANRRSVYKLEKEEQIPDGMCIDA  
 EGKLWVACYNGGRVIRLDPVTGKRLQTVKLPVDKTTSCCFGGKNYSEMYVTCARDGMDPEGLLRQPEAG  
 GIFKITGLGVKGIAPYSYAG  
 TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV  
 MGYGFYHFGTYPSGYENPFLHAINNGGYTNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED  
 SVIFTDKIIRSNAIVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVDSHMHFKSAIHPSILQNGGPMFA  
 FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_001282849

**ORF Size:** 681 bp

**OTI Disclaimer:** 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).

**RefSeq:** [NM\\_001282849.1](#), [NP\\_001269778.1](#)

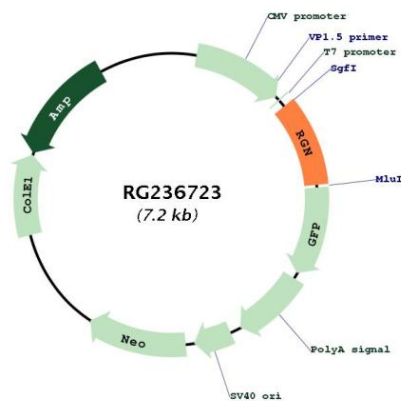
**RefSeq Size:** 2041 bp

**RefSeq ORF:** 684 bp

**Locus ID:** 9104  
**UniProt ID:** [Q15493](#)  
**Cytogenetics:** Xp11.3  
**MW:** 25.4 kDa

**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]

### Product images:



Circular map for RG236723