

Product datasheet for **RG218430**

Regucalcin (RGN) (NM_004683) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	Regucalcin
Synonyms:	GNL; HEL-S-41; RC; SMP30
Mammalian Cell	Neomycin
Selection:	
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence: >RG218430 representing NM_004683
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGTCTCCATTAAGATTGAGTGTGTTTTGCCAGAGAACTGCCGGTGTGGTGAGTCTCCAGTATGGGAGG
AAGTGTCCAACCTCTGCTCTTTGTAGACATTCCTGCAAAAAGGTTTGCCGGTGGGATTCAATCACCAA
GCAAGTACAGCGAGTGACCATGGATGCCCCAGTCAGCTCCGTGGCTCTTCGCCAGTCGGGAGGCTATGTT
GCCACCATTTGGAACAAAGTTCTGTGCTTTGAACTGGAAGAACAATCAGCAGTTGTCTTGGCCACGGTGG
ATAACGACAAGAAAAACAATCGCTTCAATGATGGGAAGGTGGATCCCGCCGGGAGGTACTTTGCTGGCAC
CATGGCTGAGGAAACAGCTCCAGCAGTTCTTGAGCGGCACCAAGGGGCCCTGTAATCCCTCTTTCCTGAT
CACCACGTGAAAAAGTACTTTGACCAGGTGGACATTTCCAATGGTTTGGATTGGTCGCTAGACCACAAAA
TCTTCTATTACATTGACAGCCTGTCTACTCCGTGGATGCCTTTGACTATGACCTGCAGACAGGACAGAT
CTCCAACCGCAGAAAGTGTTCACAAGCTAGAAAAGGAAGAAACAATCCAGATGGAATGTGTATTGATGCT
GAGGGGAAGCTCTGGGTGGCCTGTTACAATGGAGGAAGAGTGATTCGTTTAGATCCTGTGACAGGGAAAA
GACTTCAAACGTGAAGTTGCCTGTTGATAAAACAACCTTCATGCTGCTTTGGAGGGAAGAATTACTCTGA
AATGTATGTGACCTGCGCCCGGGATGGGATGGACCCGAGGGTCTTTTGAGGCAACCTGAAGCTGGTGGA
ATTTTCAAGATAACTGGTCTGGGGTCAAAGGAATTGCTCCCTACTCCTATGCGGGA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



Protein Sequence: >RG218430 representing NM_004683
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MSSIKIECVLPENCRGESPWEEVSNSLLFVDIPAKKVCRWDSFTKQVQRTMDAPVSSVALRQSGGYV
 ATIGTKFCALNWKEQSAYVLATVDNDKNNRFNDGKVDPAGRYFAGTMAEETAPAVLERHQGALYSLFPD
 HHVKKYFDQVDISNGLDWSLDHKIFYIDSLSYSDAFDYDLQTGQISNRRSVYKLEKEEQIPDGMCIDA
 EGKLWVACYNGGRVIRLDPVTGKRLQTVKLPVDKTTSCCFGKKNYSEMYVTCARDGMDPEGLLRQPEAGG
 IFKITGLGVKGIAPYSYAG

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_004683

ORF Size: 897 bp

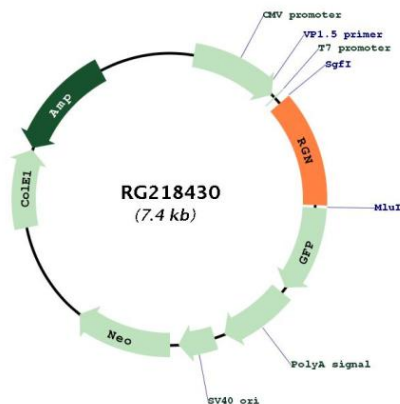
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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).

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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_004683.5
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]

Product images:



Circular map for RG218430