

Product datasheet for **RR215083**

Selenot (NM_001014253) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Selenot (NM_001014253) Rat Tagged ORF Clone
Symbol: Selenot
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >RR215083 representing NM_001014253
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAGGCTCTTGCTGCTTCTGCTGGTGGCGCGTCCGGCGTGGTCCGCAGCGAGGCCTCTGCCAACCTGG
GCGGCGTCCCAGCAAGAGATTAAGATGCAGTACGCCACGGGGCGCTGCTCAAGTTTCAGATTTGTGT
ATCCTGAGGTACAGCGGGTGTGGAGGAGTACATCGGGTTATTAGCCAGCGGTATCCAGACATCCGC
ATTGAGGGGAGAATTATCTCCCTCAACCAATTTATAGACACATAGCATCTTCTGTCAGTCTTCAAAC
TAGTATTAATAGGCTTAATAATTGTTGGCAAAGATCCTTTTGCTTTTTTCGGCATGCAAGCTCCTAGCAT
CTGGCAGTGGGGCAAGAAAATAAGGTTTATGCATGTATGATGGTCTTCTTGTAGCAACATGATTGAG
AACCAGTGTATGTCAACAGGTGCATTTGAGATAACTTTAAATGATGTACCGGTATGGTCTAAGCTGGAAT
CTGGACATCTTCCATCCATGCAACAACCTGTTCAAATTCTTGACAATGAAATGAAACTCAATGTGCATAT
GGATTCATCCACATCATCGATCA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RR215083 representing NM_001014253
Red=Cloning site Green=Tags(s)

MRLLLLLLVAASAVVRSEASANLGGVPSKRLKMQYATGPLLKFQICVS*GYRRVFEEYMRVISQRYPDIR
IEGENYLPQIYRHIASFLSVFKLVLIIGLIIVGKDPFAFFGMQAPSIWQWQENKVVYACMMVFFLSNMIE
NQCMSTGAFEITLNDVPVWSKLESGHLPSMQQLVQILDNEMKLNVMDSIPPHRS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

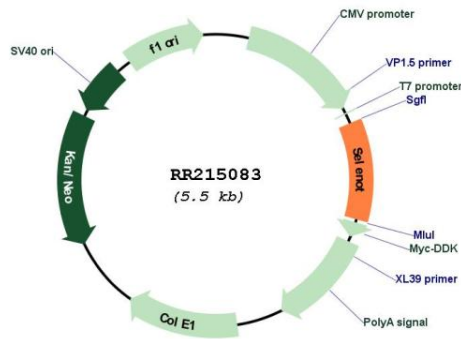


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Locus ID: 365802
UniProt ID: [Q1H5H1](#)
Cytogenetics: 2q26
MW: 22.3 kDa

Gene Summary: This gene encodes a selenoprotein, containing a selenocysteine (Sec) residue at the active site. Sec is encoded by the UGA codon that normally signals translation termination. The 3' UTRs of selenoprotein mRNAs contain a conserved stem-loop structure, the Sec insertion sequence (SECIS) element, that is necessary for the recognition of UGA as a Sec codon rather than as a stop signal. This protein is localized in the endoplasmic reticulum. It belongs to the SelWTH family that possesses a thioredoxin-like fold and a conserved CxxU (C is cysteine, U is Sec) motif found in several redox active proteins. Studies in rat indicate a role for this gene in the regulation of calcium homeostasis and smooth muscle contraction. High induction of this gene is also associated with ontogenetic and regenerative processes in nervous, endocrine, and metabolic tissues. A pseudogene of this locus has been identified on chromosome 4. [provided by RefSeq, Aug 2017]

Product images:



Circular map for RR215083