

Product datasheet for **RG233908**

MKRN2 (NM_001271707) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MKRN2 (NM_001271707) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	MKRN2
Synonyms:	HSPC070; RNF62
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG233908 representing NM_001271707 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGC**

ATGAGCACCAAGCAGATCACTTGCAGATATGACCACACGAGGCCCTCTGCTGCAGCTGGAGGTGCTGTGG
 GCACCATGGCCACAGTGTGCCCTCCCGAGCTTCCACAGTCCTCACCTCCTCCGAGGTCACTGCATC
 CATTGTGAAACTAACTCACATGAACCCGAAAGCGTGAAAGAGAACATTGGTTCTTAGAGACCGAAAT
 CTCTCTGGCATGGCTGAAAGGAAGACCCAGCCGAGCATGGTGAGTAATCCAGGCAGCTGCAGCGACCCCC
 AGCCAGCCCCGAGATGAAGCCGATTCTACCTGGATGCCATCAGGAGTGGCCTTGATGACGTGGAGGC
 CAGCAGCTCCTACAGCAACGAGCAGCAGCTGTGCCCTACGCAGCTGCTGGGGAGTGCCGGTTTGGGGAT
 GCCTGTGTCTACCTGCACGGGGAGGTGTGTGAAATCTGTAGGCTGCAAGTCTTGACCCATTTCGACCCAG
 AGCAGAGGAAGGCTCATGAAAAGATCTGCATGTTGACGTTGAAACACGAGATGGAAGGCGCTTTCCTT
 CCAGGCAAGCCAGGACAAAGTGTGCAGTATCTGCATGGAAGTGATCCTGGAGAAGGCCTCTGCTTCTGAG
 AGGAGATTTGGGATTCTCTCAATTGCAATCACACGACTGTTTGTCTGCATCCGGCAGTGCGGCTGTG
 CCAAACAGTTTGAACCCCAATCATTAAAGTCTTGCCAGAATGCCGTGTGATATCAGAGTTTGAATTCC
 AAGTGTGATTGGGTGGAAGATCAGAATAAAAGAACGAGTTGATTGAAGCTTTCAAACAGGGGATGGGG
 AAAAAAGCCTGTAATACTTTGAGCAAGCAAGGGGACCTGCCATTTGGAAGCAAATGTCTTTATCGCC
 ATGCTTACCCCGATGGGCGCTAGCAGAGCCTGAGAAACCTCGGAAACAGCTCAGTTCTCAAGGCACTGT
 GAGGTTCTTTAATTCAGTGCGGCTCTGGGATTTTCATCGAGAACCAGAAAGCCGGCATGTCCCAACAAT
 GAAGATGTCGACATGACAGAGCTCGGGACCTCTTCATGCACCTTTCTGGAGTGGAATCATCAGAACCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG233908 representing NM_001271707
 Red=Cloning site Green=Tags(s)

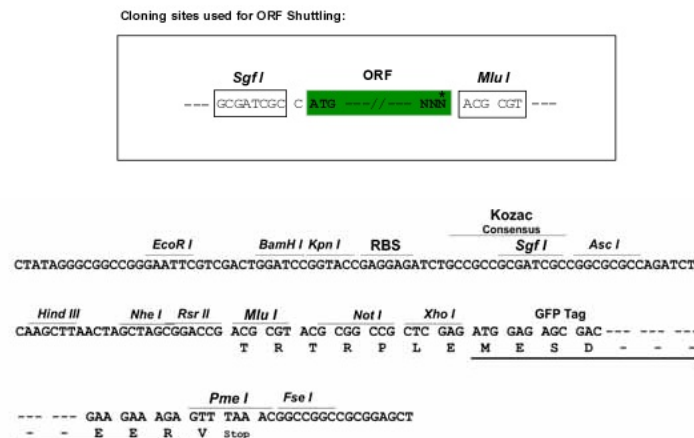
MSTKQITCRYDHTRPSAAAGGAVGTMAHSVPSPAFHSPHPPSEVTASIVKTN SHEPGKREKRTLVLDRN
 LSGMAERKTQPSMVSNGSCSDPQPSPMKPHSYLDAIRSGLDDEASSYSNEQQLCPYAAAGECRFGD
 ACVYLHGEVCEICRLQVLHPFDPEQRKAHEKICMLTFEHEMEKAFQASQDKVCSICMEVILEKASASE
 RRFGILSNCNHTYCLSCIRQWRC AKQFENPIIKSCPECRVISEFVIPS VYWVEDQNKKNELIEAFKQGMG
 KKACKYFEQGKGTCPFGSKCLYRHAYPDGRLAEPEKPRKQLSSQGT VRFVNSVRLWDFIENRESRHVPNN
 EDVDMTELGDLMHLSGVESSEP

TRTRPLE – GFP Tag – V

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_001271707

ORF Size: 1119 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.

RefSeq: [NM_001271707.1](#), [NP_001258636.1](#)

RefSeq Size: 2730 bp

RefSeq ORF: 1122 bp

Locus ID: 23609

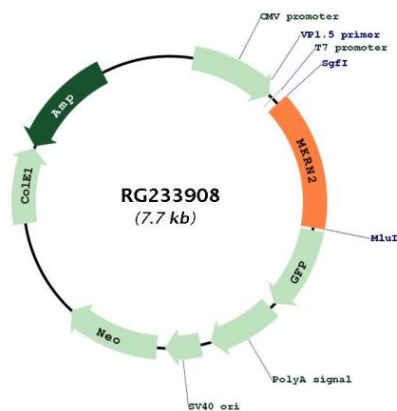
UniProt ID: [Q9H000](#)

Cytogenetics: 3p25.2

Protein Families: Druggable Genome

Gene Summary: This gene encodes a probable E3 ubiquitin ligase containing several zinc finger domains, that is a member of the makorin RING zinc-finger protein family. This gene overlaps the v-raf-1 murine leukemia viral oncogene homolog 1 (RAF1) gene in an antisense orientation and may have a co-regulatory function with RAF1. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Nov 2012]

Product images:



Circular map for RG233908