

## Product datasheet for **MG211757**

### Prag1 (NM\_172911) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Prag1 (NM_172911) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Prag1
Synonyms:	9830148H23; D8Ertd82e; mFLJ00269; NACK; Sgk223
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG211757 representing NM_172911 Red=Cloning site Blue=ORF Green=Tags(s)

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GCC**CGATCGCC**

ATGCTGCGTGCAGCGACTTTGTGGAGCACATCTGAAACCCGGGTCTTGAAGAAGTCTTCTGCTTGC  
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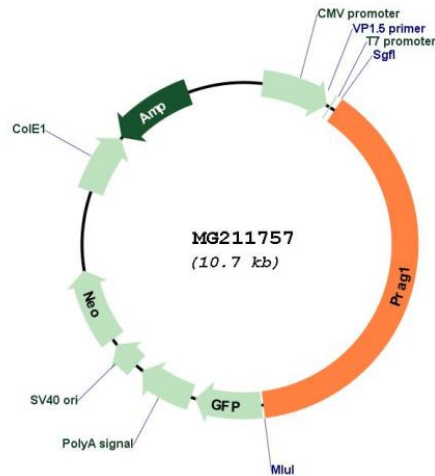


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CAAGCCGGTGAAGAGGAGCCTTTGGTTGCGCAGGGGCTAACCTCAAGGGAGGCCATCCACATAATGTGA  
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ATGAAGTTTGTGAGAAGCGGTGGACCGAAGCGGGGTGGAAGTGGAGGACTGGCTTTGCTGCCAGT  
ACTTGGCCTCGGCAGAGCCAGGGGCCCTTTCAGTCCCTGAAGCTCCTACAACCTCTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



**Plasmid Map:**


**ACCN:** NM\_172911

**ORF Size:** 4119 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\\_172911.3](#), [NP\\_766499.2](#)

**RefSeq Size:** 4780 bp

**RefSeq ORF:** 4122 bp

**Locus ID:** 244418

**UniProt ID:** [Q57114](#)

**Cytogenetics:** 8 22.78 cM

**Gene Summary:**

Catalytically inactive protein kinase that acts as a scaffold protein (By similarity). Functions as an effector of the small GTPase RND2, which stimulates RhoA activity and inhibits NGF-induced neurite outgrowth (By similarity). Promotes Src family kinase (SFK) signaling by regulating the subcellular localization of CSK, a negative regulator of these kinases, leading to the regulation of cell morphology and motility by a CSK-dependent mechanism (By similarity). Acts as a critical coactivator of Notch signaling (PubMed:25038227).[UniProtKB/Swiss-Prot Function]