

Product datasheet for **MC224352**

Prag1 (NM_172911) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Prag1 (NM_172911) Mouse Untagged Clone
Tag: Tag Free
Symbol: Prag1
Synonyms: 9830148H23; D8Ertd82e; mFLJ00269; NACK; Sgk223
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >MC224352 representing NM_172911
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTCTGCGTGCAGCGACTTTGTGGAGCACATCTGAAACCCGGGCTTGAAGAAGCTGCTTCTGCTTGC
 GAAGTGATCATCAGCCAACAGCTGGCCATCCCAAGGCTAGAGCCAACAGCCTACCCGCTGGAAGCTCGCT
 GCCTGCCAGGCTGAGAATTGCCGCTAGACGACGAAGGCGTGAATGGCTTGGCCTACTCAAAGCCACC
 ATTGCTGTAAAGCCACCATGATGACTTCTGAGACCTCCGACTTGTGGACTGAAGCCAGCCTGAGCGCTG
 AAGTCCCAAAGGTCAATTGGAGACGAACCCAGGCAAGCTCCTGCTCCCGAAACAGGAAGATGAGCCAAT
 AGTTTACCTAGGCAGCTTCCGAGGACTGCAGAAGCCTGCAAGCCCTTTGCCTGCACAGATGGCAACTCT
 CGTTGTCCCCAGCCTATACCATGGTCGGACTGCATAACCTGGAGGCCCGCGTGGATAGGAACACTGCCT
 TCAACCAGTGAGCTTCCAGGAAGAGAAGGCTGGGAGGGAAGAGCTGCCCTCAGCTCAGGAGAGCTTTTCG
 CCAGAAGCTGGCTGCCTTTCAGGGATGACATCCAGCTGCCCAAGGGCCCCAGGCCCTGCATTTCTCCA
 CAGCCCCTGCGGGAATCCCTGCCCTCGGAGGATGACAGTGACCAAGGTGCTCACCTCAGGAGACAGCG
 AAGGTGGGAGTACTGTTCCATTCTGGACTGTTGTCCAGAATCCAAAGATGCTGTGCATAGCACCCGAGGG
 CTCTGGCAGACGTGGAGGGGACTGCTCACCCACGTGCAGGGAGCAGGGACCACGTACAAGACCAACAGAA
 GAGGAAAAACAGGGTCTGAGCTTCCCCAGAGAGTGTGTGGTTCAGGGATCCACAGCGAACCCGCCCGCC
 TGGGCCCAAGAAGCCATCCCTTAACTCTGAGGCCGCCAGCTCTTCCGATGGTCTGTCTGTGGCAGCAG
 CCGCAGCGGGGCCAGCAGCCCCTTCGCTCCCCACCTTGAGAACGACTACTGCTCTTTGTGAAGGAACCG
 GCCTCAGGGAAGCAGCAAGACCTCAGCGGCCACTTTCTCACCTCTGGCAAATGTGTGGTCAAGTGTGCG
 AACTCCAGCCCGCTCCCTTCTAGGGACCTGTGCAGCCTGAACCCATCTACGCCGAAAGCGCCAAGAG
 GAAGAAGCAGCTCCGGGGCTCCGAGGCCGAGCCCAAGAAAGAGCAGGTCCAGCTGGCCATAGCCAG
 GGCCAAGTATGGACAGGTGATACCTGGATTGAGAAGACACCCCTAGCTGGAGCCAGGACAGGGAAGGCG
 CAAACCCTGCTCCTCAGGTGGCAACCACCATCACTGTATCGCTGCTCACCCGGAAGAGGACCACAGGAC
 TATTTATCTGAGCAGCCCTGACTCTGCCGTGGGGTGCAGTGGCCACGTGGGCCCTTGAACCAGGACTTA
 CAAGCCGGTGAAGAGGAGCCTTTGGTTGCGCAGGGGCTAACCTCAAGGGAGAGCCATCCACATAATGTGA



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CTGAAAACACGGCCAAAGAGAAGCCTGCCATTCACCCCAAAGTGTCCAAAAGCAGCCCCGGAGGGTCCCC
 TGTGTCTCCCGCGCCCCACTGACTGACCACAGCGACGGGAACACCGGTGGCAGCAGCGTCGGACCCCAA
 CTTTTGTCTAGAGTCCCTGCTAACCTAACGTCTTCTGCCACACCAATGGCGTTGCCACTGCTGGTGACT
 CTGCCAAGTGTCCCCACCAGCCACCTCCTCTTTCAGTCTTGACCAGAGGCGGCCAAGATACCAGACTGG
 TGCTTGGAGCCCGCAGTCCGGATAGAAGAGGAGGAGGAGGTGGGCAGGAGTTGAGTCAAAGTTGGGGG
 AGAGAGTTGAAAAACGGTACCGCAGACCATTCAAACCTCTACCTGGCACCGCTCCATCCCATCGATG
 GCACCTCTGGGCAGAACAGCAAACTAACTCTGGGATGAGCAAAATCGGCTTCTTTGCGTTTGAGTTCCC
 AAAGGACAGAGGCAGATTGGAGGCATTCTACCCCTCCCCACCTCCAAGTCAAAGGCACCTGTTAAAA
 ATGAACAAGAGCAGTTCTGACTTGGAAAAAGTGAGCCAGAGTTCTGCAGAAAGCCTCAGCCCGTCTTCA
 GAGGGGCCACGTGAGCTTACCACGGGCTCCACAGATAGCCTAGCCTCGGACTCCAGGCCCTGCAGCGA
 TGGAGGTCATCATATGAACCCACCCACTACCCACCATCAGCGGGAAAAAGCTTTCGCTCCCGTCCCT
 TTTCCATCAGGCTCCACAGAGGATGTGTCCCTGGTGGTGGTCTGCGCAGCCTCCTCTGCCCCAGA
 AAAAGATAGTGAGCCGTGCCCTCTTCCCTGATGGCTTCTTCTGGACCAAGTTCCCTAAGCCACG
 GACGGCAAGTCCAAGCTGAACCTAAGCCATTGAGAAACCAATGTTTGTGCCATGACGAGCCTCCTTTT
 AACTGTTCTTGAAGTCTGGAACCGTTCCACCATGTCTTCTCCTCTTCTGAGCCTTTGGGAAAGCTT
 TCAAAGGCAATGCTCCCTGGGCCCCAGCTCTGGGGCTGGCGAACAGCAAAGGCGGCTGTGGGAGCCCGAG
 TCTCCAGTGACAGAGCGGCCACCTCCACGTATCATCCAGCTCAGCGTGTCCAGCCAGGCCCTCCTCCAGC
 AGCACCCAGCTTCCAGCTGCACAGCCTGCTGAGTAGCATCAGCAGCAAGGAGGGCACCTATGCCAAGCTTG
 GGGGCCTCTACACACAATCCCTGGCCCGCTAGTGACCAAGTGTGAAGATCTTTCATGGGTGGCCAGAA
 AAAGGAAGTGGCTTCAATGAGAATTACTGGTCACTCTTCAAGCTGACGTGCAACAAACCTTGCTGTGAC
 TCGGGGATGCAATTTACTACTGTGCCACTGCTCTGAGGACCCAGGCAGCATCTATGCTGTGAAAATCT
 GCAAAACCCAGAACCAAACTCAGCCTCATACTGCAGCCCATCTGTGCCGGTGCATTTCAACATCCAGCA
 AGACTCGGGCCACTTTGTGGCCTCTGTGCCCTCCAGCATGCTTGCCTCCCTGACACATCCAGCAAAAGC
 ACCGCGCTGCGGTATCCCCACAGCCCTGCCCAGGAGCAGGACTGTGTGGTGGTTCATCACCCGGGAGG
 TACCGCACAGACTGCCTCCGACTTTGTGCGGGACTCTATGGCCAGCCACCGGGCGGAGCCTGAGGTTTA
 CGAGCGCCGGGTGTGCTTCTGCTTCTGCAGCTCTGCAACGGGCTGGAGCACCTGAAGGAACACGGGATC
 ATCCACCGGGACCTGTGCTGGAGAACCTGCTGCTGGCGCACTGTAACCCCTCAGAGCTCCCCGGGCCCT
 CTGCCACTCTACCGTGCCACCACCACATCCAGGTGCCCTTCTGCCGCGCCGAGCCACCCTGCCTG
 CCAGGGAGGGCCTGGTGAGAAGCAGCTGCCAGGCTCATCATCAGCAACTTCTGAAGGCCAAGCAAAAG
 CCAGGAGGCACCACCACTGCAACAGAAGAAGAGCCAGGCCCGGCTGGTCCCAGATCGTGTCTGCCT
 CCCAGTACCGCAAGTTTGTGAGTTCAGACGGGCATCCTCATCTATGAGCTGCTCCACCAGCCCAACCC
 ATTCGAGGTGCGAGCCAGCTCCGGGAGCGGACTACCGCGGGAGGACTTACCCCGCTGCCCACTG
 TCCTCTACTCTCCCGGCTGCAGCAACTCGCCCATCTACTGCTTGAAGGCTGATCCCATCAAGCGCATCC
 GCATAGGTGAAGCTAAGCGGGTGTGCAAGTGTGCTGTGGGGGCCACGGCGGGAGCTGGTGGAGCAGCC
 GTGCACGTGAGGAGGACTGTGTAACACTCTGCACAACTGGATCGACATGAAGCGAGCACTGATGATG
 ATGAAGTTTGTGAGAAGCGGTGGACCGAAGCGGGGTGTGGAAGTGGAGGACTGGCTTTGTGCCAGT
 ACTTGGCTCGGCAGAGCCAGGGGCCCTTTCAGTCCCTGAAGCTCCTACAACCTCTCTGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:

SgfI-MluI

ACCN:

NM_172911

Insert Size:

4122 bp

OTI Disclaimer:

Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

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:	<ol style="list-style-type: none">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]