

Product datasheet for **RN209577**

Prag1 (NM_001107315) Rat Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Prag1 (NM_001107315) Rat Untagged Clone
Tag: Tag Free
Symbol: Prag1
Synonyms: Pragmin; RGD1311793
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >RN209577 representing NM_001107315
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGTCTGCGTGCAGTGACTTTGTGGAGCACATCTGAAACCCGGATCCTGCAAGAACTGCTTCTGCTTGA
 GGAGTGACCATCAGCTCACAGCTGGCCACCCAAAGCTAGAGCCAGCAGCCTACCCGCTGGAGCTCGCT
 GCCTGCCAGGCCCTGAGATTTGCCGCTTAGAGGATGAAGGTGTGAATGGCTTGGCCTACTCAAAGCCACC
 ATTGCGGTAAAGCCACCATGATGACTTCTGAGACTGCCGACTTGTGGACTGAGGCCAGCCTGAGCGCTG
 AAGTTCCAAAGGTCAACTGGAGACGAACTCCAGGCAAGCTCCTGCTCCAGAAACAGGAAGATGGGCAAT
 AGTTTACCTCGGCAGCTTCCGAGGAATGCAGAAGGCTGCAGGCCCTCTCGCTGCACAGATAGCAACTCT
 CGTTGTCCCCAGCCTACACCATGGTCGGACTGCATAACCTGGAGGCCGAGTGGATAGGAACACCCGCC
 TCCAACCAAGTGAATTTCCAGGAAGAGAAGGCTGGGAGGGAAGAGCTGCCCTCAGCTCAGGAGAGCTTTCC
 TCAGAAGCTAGCTGCCTTACAGGGATGACGTCAGCTGCCTCAAGGGCCCCAGACCTGCACCTTCTCCA
 CAGCCCTTGCAGGAGTCCCTGCCCTCAGAGGATGACAGTGACCAAGGTGCTCACCTCAGGAGACAGCG
 AAGGTGGGAGTACTGCTCCATTTTGGACTGTCGTCAGAAATCCAGAGATGCTGTGCATAACACCCGAGGG
 CTCTGGCCGACGGCAGGGGACTGCTCACCCATATGCTGGGAGCAGGGAACATGTACAAGACCAACAGAA
 GAGGAAAAGCAGGCTCTGAACTTCCCCAGAGAGTGTGTGGTCAGGGATCCACAGCAAACCCACCCACC
 TGGGCCCCAAGAAGCCGTCCTTAACTCAGAGGCTGCCAGCTCTTTCAGATGGTCTGTCTGTGGCAGCAG
 CCGCAGTGGTGCACAGCCCTTTGCTCCACACCTGGAGAATGACTACTGCTCTTGTGAAGGAGCCA
 ACCTCGGTGAAGCAGCAGGACTCTGGCTGCCACTTAGTCAACTCTGGCAAATATGTGGTCAAGCCGTGG
 ACCTCCAGCCCCAGCCCTTCTAGGGAGGCTGTGCAGCCTGAACCCATCTACGCCGAAAGTGCCAAGAG
 GAAGAAGGCAGCTCCGGTGCCTCAGAGGCCGAGCCCAAGAAAGAGCAGGTCTCGTCTGGCCAAGTATGG
 ACAGGCGATACCTGGTCTCAGAAGACACCTCTGGCTGGAGCCAGAAAGGGAAGGCCCAAACGCTGCTC
 CTAGGTGGCAACCACTATTACTGTTATTGCTGCTCACCCAGAAGAGGACCATAGGACTATTTATCTGAG
 CAGCCCAGACTCTGCCGTGGGGTGCAGTGGCCACGTGGGTCTTTGAACAGGACTTACATGGTAGTGGGA
 GAAGAGCCTTTGGTCGTGCAGGGGCTAAGCTCAAGGGAGAGCCATCCACATAATATGACAGAAAACCTCGT



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CCAAAGAAAAGCCTGCCATACCCCCAAGCTGTCCAAAAGCAGCCCGGGAGGGTCCCCGGTGTACCTGC
 AGCCCCCCTCTGACTGACCACAGTGTGGGAACACCAGTGGCAGCAGTGTGGATCTCAGCCTTCGTCT
 AGAGTCCCTACTAACCTAACTTCTTCTGCCAGACCAATGGTGTGGCCCGGTGACCCTGCCAAGTGC
 CCCCACAAGCCAACTCTTCACTTGGACCAGAGGCGGCCAAGATACCAGACTGGTGCATGGAGCCGCCA
 GTGCCGGATAGAGGAGGAGGAAGAGGTGGGGCAGGAGTGTGAGTCAAAGTTGGGGGAGAGAGTTGGAA
 AATGGTATTGCAGACCATTCAAACCTCTACCTGGCACCCGCTCCATCCATTGATGGCGCCTCTGGGC
 AGAACGGCAAAACTAACTCTGGGATGAGCAAATCAGCTTCTTTGCGTTTGAGTTCCAAAGGACAGAGG
 CAGATTGGAGTCAATTCACCCCTCCCCACCTCCAAAGTCAAGGCACCTGTTAAAAATGAACAAGAGC
 AGCTCTGACTTGAGAAAAGTGAAGCCAGAGCTCTGCAGAAAAGCCTCAGCCCGTCTTCCGAGGGGCCACG
 TCAGTTTACCACGGGCTCCACAGATAGCCTAGCCTCGGACTCCAGGACTTGACGCGATGGAGGTCCATC
 GTGTGAAGCCACCCTCACCACCATCAGCGGAAAAAGCTCTTTGCTCCCGTCCCTTTCCCGTACGGC
 TCCACGGAGGATGTGTCCCCAGCGTCTGCACAGCCTCTCTCTGCCCCAGAAAAAGATAGTGAGCC
 GTGCTGCCTCTCCCTGATGGCTTCTTGGACCAAGGTTCCCTAAGCCACGCACAGCGAGTCCCAA
 GCTGAACCTAAGCCACTCGGAAACCAATGTTTGTGCCATGACGAGCCTCTTTGAGCTATTCTTGAAC
 TCTGAAAACCATCCCCACCATGTCTTCTCTCTCTGAGCCTTTGGAGAAAGCTTCAAAGGCAGTGTCC
 CCTGGGCCCCAGCTCTGGGTCCAGCAAACAGCAAAGGCGGTTGTGGGAGCCCAATCTCCAGGGCAGAGC
 GGCCACCTCCACCTCGTCATCCCAGCTCAGCGTGTCCAGCCAGGCTCCACCCGGCAGCAGCCAGTTCAG
 CTGCACAGCCTGTGAGCAGTATCAGCAGCAAGGAGGGCACCTATGCCAAGCTCGGGGGCCTCTACACAC
 AGTCCCTGGCCCGCTAGTGACCAAGTGCAGAACCTCTTCATGGGTGGTCTGAAAACGGAAGTGCCTT
 CGATGAGAACAGCTGGTGCCTTCAAACCTGATATGCAACAAGCCTTGTGTGACTCGGGAGATGCAATT
 TACTACGGTGCCACTTGTCCAAGGACCCGACAGCATCTACGCAGTGAAAATCTGCAAAACCCAGAAC
 CCAAGTCAGCTTCGTAAGTGTAGCCCGTCCGTGCCAGTGCATTCACATCCAGCAAGACTGCGGCCACTT
 TGTGGCCTCTGTGCCCTCCAGCATGTTCCTTCCCGACACATCCAGCAAGACCCTGCGCCTGCTGCG
 CCCTCACACACCCCTGCCAGGAGCAGGACTGTGTGGTGGTTCATCACCCGGGAGGTGCCGACCCAGACTG
 CCTCGGACTTTGTGCGGGACTCTGTGGCCAGCCACCGCGCAGAGCCTGAGGTTTACGAGCCCGGGTGTG
 CTTCTTGTCTGCGAGCTCTGCAACGGGCTGGAGCATCTGAAGGAACATGGGATCATCCACCGGGACCTA
 TGTCTGGAGAACCTGTTGCTAGTGCATTGCAACCCTCAGAGCTCTCCCGGGCCCTCTGCTAATCCCAGCG
 TGCCACCACCACGTCCCGTTGTCTTCTGCCGACCCGACGCCACCACAGCCTGCCAGGGAGGACCTGG
 TGAGAAGCACCTGCCAGGCTGATCATCAGCAACTTCTGAAGGCCAAGCAGAAGCCGGGAGGCACCACC
 AACCTGCAACAGAAGAAGAGCCAGGCCCGGCTGGCCCTGAGATCGTATCTGCCTCTCAGTACCCTAAGT
 TTGATGAGTTCAGACTGGCATCTCATCTACGAGCTGCTCCACCAGCCCAACCCATTGAGGTGCGAGC
 CCAGCTACGGGAGCGTACTACCGGCGGGAGGACTACCCCGCTGCCACACTGTGCTCTACTCGCCC
 GGCTGCAGCAGCTCGCCACCTGCTCCTTGAAGCCGATCCCATCAAGCGCATCCGCATAGGTGAGGCCA
 AGCGGGTGTACAGTGTGCTGTGGGGCCACGGCGAGAGCTGGTAGAGCAGCCGTGCCCTCGGAGGA
 GGTAAGTGTGCAACTCTGCACAAGTGGATCGACATGAAGCGAGCCCTGATGATGATGAAGTTTGGCCGAG
 AAGGCGGTAGAACGAAGGCGGGGTGTGGAGCTGGAGGATTGGCTCTGTTGCCAGTACTTGGCCTCAGCAG
 AGCCAGGGGCCCTTTCAGTCCCTGAAGCTCTGCAACTTCTCTGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:

SgfI-MluI

ACCN:

NM_001107315

Insert Size:

4107 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:	<u>NM_001107315.1, NP_001100785.1</u>
RefSeq Size:	4759 bp
RefSeq ORF:	4107 bp
Locus ID:	306506
UniProt ID:	<u>D3ZMK9</u>
Cytogenetics:	16q12.2
Gene Summary:	Catalytically inactive protein kinase that acts as a scaffold protein (PubMed:29503074). Functions as an effector of the small GTPase RND2, which stimulates RhoA activity and inhibits NGF-induced neurite outgrowth (PubMed:16481321). Promotes Src family kinase (SFK) signalling 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 (PubMed:27116701, PubMed:21873224). Acts as a critical coactivator of Notch signaling (By similarity).[UniProtKB/Swiss-Prot Function]