

Product datasheet for **RC208492**

PRRC2A (NM_080686) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PRRC2A (NM_080686) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	PRRC2A
Synonyms:	BAT2; D6S51; D6S51E; G2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC208492 representing NM_080686 Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTAAATACGACTCACTATAGGGCGGCCGGAATTCTGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTCGATCGCTCGGGCCGACTGCCAAGGAAAGGATGGAAGAAGTATTCCTCGCTCAACCTGTTTG
ATACGTATAAGGGCAAGTCCTTAGAGATCCAGAAACCCGCTGTTGCCCTCGCCATGGCTGCAGAGTCT
CGGGAAAGTTGCCATTGCCCGCGTATGCCACCTCCAGCCAACCTTCAAGCCTGAAAGCCGAGAACAA
GGCAATGACCCCAATGTCTCACTAGTGCCAAAAGACGGAACAGGATGGGCAAGCAACAGGAGCAGTCCG
ACCCCAAGAGTTCGATGCCTCAACCGCTCAGCCGCCGAATCGCAGCCACTGCCGGCTTCACAGACGCC
TGCTCCAACAGCCGAAACGACCCCGAGCAGCCCGGAGAACACTCCTTTGGTTCAAGCGGGGTAAG
TCCTGGGCACAAGCCAGCGTCACCCATGGAGCAGATGGAGATGGTGAAGGGCATCAAGCCTACTGTAC
GATTCTCTCGAGAGGAATTTCCGACCCTGCAGGCGGCTGGCGACCAGGACAAGGCTGCCAAGGAAAGGGA
GTCTGCCGAACAGTCGTCTGGGCCCCGACCAAGCCTCCGCCCCAAAATTCTACAACCTGGAGGGACGGA
GGTGGGCGTGGCCTGATGAGCTGGAGGGCCCGGACTCCAAATTCATCATGGTCATGATCCCGGGGTG
GGCTACAGCCTTCAGGCCACCCAGTTCCTCCCTACCGCGAATGATGCCGCCTTTCATGTATCCCC
ATATCTCCCGTTCCTCCGCCCTATGGACCCAGGGGCTTACCGATACCCACTCCTGATGGGCCAGC
CGTTTTCCCGTGTGGCGGGCCCCGAGGCTCAGGGCCACCAATGCGCTTAGTAGGCCTGTGGTCTGTC
CCTTATTCTCAAAGAGGATAATCTCAAAGAGTTTGATCAGTTGGATCAGGAGAATGATGATTGGTGGGC
AGGGGCCCATGAAGAGGTTGACTACACTGAAAAGCTCAAGTTCAGCGATGAGGAAGATGGCGGAGACTCT
GATGAGGAGGCTGCTGAGGGCCACAGGATTCCCAATCAGCTTCTGGTGAAGAACGGCCCCCTGAAGCAG
ATGGCAAAAAGGGCAACTCCCCAACAGCGAACCGCCACTCCTAAGACGGCCTGGGCAGAAACCTCTCG
GCCTCCAGAGACAGAGCCGGGACCTCTGCCCAAAGCCTCCCTACCCCACTCACGGGGCCCCGCC
GGGAACGGGGCCCCCTGGGACTACCCAGATCGTGGGGTCTCCTGCAAGCCCCAGCACCTGAAG
ATGAGGATGAGGCATGGCGGCAGCGACGAAAGCAGTCGTATCTGAGATTTCCCTGGCAGTGAGCGGGC
CCGGCGACGGCGAGAAGAAGAGGAGCGGCGCATGCAAGAAGAGCGCCGGGCAGCCTGTGCTGAGAAGCTC



[View online »](#)

AAGCGACTCGATGAAAAGTTTGGGGCACCTGACAAGCGGCTCAAAGCAGAGCCTGCTGCCCCACCTGCTG
 CCCCTTCTACCCAGCTCCACCACCTGCAGTCCCTAAAGAACTCCCTGCACCTCCAGCTCCACCTCCAGC
 ATCAGCCCCAACACCAGAGACAGAACCTGAAGAGCCAGCACAGGCCCCCTCTGCCCAATCTACTCTACT
 CCAGGTGTGGCTGCGGCTCCCACTCTGGTGAGTGGTGGTGGCAGTACCAGTAGCACCAGCAGTGGCAGCT
 TCGAAGCCAGCCAGTGAACCACTGCCCTCAAAAGAGGGTCTGAACCACCAGAAGAGGTTCTCTC
 TCCTACCACACCCCAAGTTCCAAAGGTGAACCAAGGGTGATGGGATTGGTCCCACCCGCCAGCCCCCT
 AGTCAGGGCTTGGGCTACCCCAAATATCAGAAGTCGTTGCCTCCTCGTTTCCAGCGGCAGCAGCAGGAGC
 AGCTCCTGAAGCAGCAGCAGCAGCAGTGGCAGCAGCATCAACAGGGCTCTGCCCTCTTACCCCAAT
 GCCCCATCACCACCACAGCCTGTGACCTGGGGGCTGTGCCAGTCCACAGGCTCCACCCCGCCCCC
 AAGGCCCTGTACCCAGGTGCTCTGGGCCGCCCCACCCATGCCCAATGAACCTTGTATCCCGATGGA
 TGATGATTCTCTTATGTGGACCCCGGCTCCTCCAGGGTGTCCCCCTCTAGACTTCTACCTCTCTGG
 TGTGCATCCCTCTGGCTAGTTCCTCGAGAGCGTTTCCAGAGTGGGGGCTCAAGCTCAGAGCCATTTGAC
 CGTCATGCACCTGCTATGTTACGGGAACGGGGCACTCCACCGGTGGATCCAAAGTTGGCTGGGTAGGAG
 ATGTCTTACCGCCACACCCGCTGAACCCCGCCCACTTACCTCACCTCTGCGCCAGGCTGCGGATGAGGA
 TGACAAGGGGATGAGGAGCAGACTCCTCCAGTACCTCCCCACCACCCTATCTGGCCAGTTATCCAGGC
 TTTCTGAGAATGGAGCCCTGGGCCCAATCTCTCGCTTCTCTGGAGGAACAGGGGCCCGCTCCAC
 TCCCTGGCCCCAGGCACTGATGAAGTGGCCAAGATACAACTCCACCACCAAGAAGGAGCCCCCTAA
 GGAGGAGACTGCACAGCTGACGGGGCCAGAAGCAGGCCGAAAGCCTGCCCGCGGAGTCGGGAGTGGAGGC
 CAGGGCCCCCACCACCGCAGAGAGAGTGCACAGAGACCCGCTGGGGCCCTCGTCCAGGGAGCAGTC
 GTCGTGGAATCCCTCCAGAGGAGCCAGGGGCCCAACCCGCGGGGCTGGGCTATAAAGAAACCTCCACC
 ACCTACAAAGTAGAAGAGCTGCCTCCCAAGCCCTCGAACAGGGGGATGAAACCCCAACCCCAAG
 CCAGACCACTCAAGATAACCAAGGGGAAGCTAGGGGGCCCCAAGGAGACCCACCAATGGAATCTTT
 CCCCTGCCCAAGGCTTCGGAGGACTATTGATGAAAGAGTGGTCTACCTCTTGGCGGGTGGGG
 CCGAGGGCAGTATTTTGGCAGAGGGAGGGGTTTTCGGGGACCTATGGGGGACGAGGGCGGGAGCCGA
 AGCCGGGAATTCCGAGTTACCGAGAGTTTCGAGGAGATGATGGGCGTGGAGGTGGGACAGGGGACCA
 ACCACCTCTGCTCCCCGAGGCCGCACTGCCAGCAGACACGGAGCGAGGGTTAGAGTATGAGGAAAT
 CCCCAGCGGGCCGCGCAGCGGGGCTCAGAAACAGGCAGCAGACCCATGAGAGTATCTGGCTCTTCA
 GACAAGGAGGCTCCACACCAAGGAGGGAACACTCACCCAGGTCCCTCTCGTCCCCCACCACCAGGAG
 CCCCACCTTACCAGCCCCAGCCGCTTACTGCCGGGGTGGGCGAGTCTTACTCCAGAGGGGTGCC
 ATCTCGCCGGGGCGAGGAGGAGGGAGGCCCTCTCAAGTTTGCCAGGCTGGAGCCCTCCAGCCAAG
 TCTCTGGCTCCCAAGAACTCCACAGGCCCTTGGCACCAGTAAGGAGCCTTTGAAAGAGAAGTTGA
 TCCAGGGCCTCTGTCCCTGTGGCGCGCGAGGCAGCAATGGAGGTAGCAATGTGGGCATGGAAGATGG
 GGAGCGACCCGAAGGAGCGACATGGGAGGGCTCAGCAGCAGGATAAACCGCCTCGTTTCCGGAGGCTG
 AAGCAGGAACGGGAGAATGCCGCAAGGGGTCTGAGGGCAAGCCCTCCCTAACCTTCCAGCCTCCGCTC
 CTGGACCTGAGGAGGCCCTCACACAGTCACAGTGGCCCCAGCACCTCGCCGGGAGCTGCCAAGTCTC
 TGATCTGTCAAACCAGAACTCAGACCAAGCCAATGAGGAATGGGAGACTGCATCAGAGAGCAGTGACTTC
 ACCAGTGAGCGCCGAGGGGACAAAGAGGCACCCCAACAGTACTGCTGACACCAAGGCTGTGGGAACTC
 CTGGGGGAGGTGGAGGTGGAGCCGTACCAGGTATTTAGCCATGTCCCGGAGATCTGAGCCAGAGAGC
 CAAGGATTTGAGTAAACGGAGCTTCTCAAGTCAGCGGCCAGGCATGGAACGGCAGAATCGCGCCCTGGC
 CCAGGGGCAAGGCTGGCAGCAGTGGCAGCAGCAGTGGAGGAGCGGTGGGGTCTGGAGGAAGGACCG
 GGCCAGGACGAGGCGACAAGAGGAGCTGGCCCTCTCCCAAGAACCGAAGTCGCTCTCAGAGGAGCGTCC
 CCCGGGGCTTCCCTGCCTCCCCACCTCCAGCAGTTCTGCTGTCTTCCGCTGGACCAAGTTATCCAC
 AGCAACCTGCTGGCATCCAACAGGCTCTGGCCAGCTTAGTAGCCGTCAAGGGAGTGTAAGTGCACCAG
 GGGGTATCCAAGGCACAAGCTGGGCTTCCCCAAGCCCTCAGGGCCCCCTCTCTAGGCCCCCAACCCG
 ATACGAGCCCCAGAGGTCAACAGCGGCTCAGTTCTGACCCCACTTTGAGGAGCCGGGCCAATGGTG
 AGAGGGTGGGTGGGACTCTCGGACTCTGCCGGGTAGTCCCTTTCCCCTAAACGTGGGAGCGGC
 CTCCCAGAAAACAGAGTGTCTACAGGAGGAATCTTGGCACCTCTCATAGCTCTGGATTCTTGGGCTC
 TAAGCCTGAGGGCCAGGCCCTCAGGCAGAGTCCAGAGATACAGGCACAGAGGCCCTGACCCCTCACATC
 TGAACCGTTTACATACTGCCACTAGCCGAAAGAGTTACCGGCCAGCTCCATGGAGCCTTGGATGGAGC
 CCCTGAGTCCTTTTGGAGTGTGGCTGGCACAGAAATGAGTCAGTCTGACAGTGGGTGGACCTGAGTGG
 GGATTCTCAGGTGTATCAGGTCCCTGCAGCCAGCGAAGTTCCCTGATGGAGGACTCAAGGGGGCAGCA
 GAGGGACCCCCAAGAGGCTGGAGGCTCTACCCCTGAATGCTGTCTTGTGAGGGTCCACCTGGCT

CTGAACCTCCTAGGAGACCACCACCTGCCCCACGATGGGGACAGAAAGGAGCTGCCCCGGGAGCAGCC
TCTGCCCCCTGGCCCCATTGGCACAGAACGATCACAGCGTACAGACCGAGGCACAGAGCCTGGCCCCATT
CGGCCATCCCATCGACCTGGTCCCCAGTCCAGTTTGGCACTAGTGACAAGGACTCAGACTTACGCCTAG
TGGTAGGAGACAGCTTGAAAGCAGAGAAGGAGCTAACAGCATCAGTCACTGAGGCCATTCTGTATCACG
AGACTGGGAGCTGCTTCCCAGTGCTGCTGCCTCTGCTGAGCCACAATCCAAGAACCTGGATTCTGGGCAC
TGTGTCCCGGAGCCAGCTCCTCAGGCCAGCGCCTGTATCCTGAGGTTTTCTATGGCAGTGCTGGGCCTT
CCAGTTCTCAGATCTCTGGGGGAGCCATGGACTCTCAATTACATCCAACAGTGGAGGCTTCCGCCCTGG
GACACCCTCACTGCACCCTTACAGATCACAGCCCCTATACCTACCCCCGGCCAGCCCCCTCCCTCAGCA
CTGCTCTCTGGGTTAGCTCTCAAGGGCCAGTTTCTGGATTTCTCCACAATGCAAGCTACAGAGCTGGGGA
AGTTGCCGGCTGGAGGAGTTCTTACCCTCCACCTTCTTCTCTACTCTCCGGCTTTCTGCCCCAGTCC
TTTGCCTGACACATCGTTGCTTCAGGTACGCCAGGATCTGCCATCCCCTTCGGATTTTTATTCTACTCCT
CTGCAGCCTGGTGGCCAAAGTGGCTTTCTCCCTTCAGGGGCTCCTGCCCAGCAGATGCTTCTACCCATGG
TAGACTCACAGCTGCCTGTGGTGAACCTTGGCTCCCTGCCGCCAGCACCTCCTGCCCCACCTCCCCT
TTCTCTGTTACCTGTGGGCCCTGCTCTGCAGCCCCCAGCCTGGCTGTGCGGCCCCACCTGCTCCTGCT
ACTCGGTGCTGCCTTACCTGCCAGGCCCTTCCCGCTAGCTTGGGGCAGCAGAGCTGCATCCAGTGG
AACTAAAGCCGTTCCAGGATTATCAAAAAGTACAGCAGCAACCTTGGGGGACCTGGATCATCAGGACTCC
CCCAACTGGAAGGTCTTCTCTGGCCTCAATTCCCGTCTCAAGGCCACGCCTTCCACCTACAGTGGAGTC
TTCCGCACCCAGCGCGTCGACCTTTACCAGCAGGCCTCCCCACCAGATGCCCTGCGCTGGATACCTAAGC
CTTGGGAGCGGACAGGGCCGCCACCTCGAGAAGGGCCCTCCCGACGGGCAGAGGAGCCTGGGTCCCGAGG
GGACAAGGAGCCTGGGTTGCCCCACCCCGC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC208492 representing NM_080686
 Red=Cloning site Green=Tags(s)

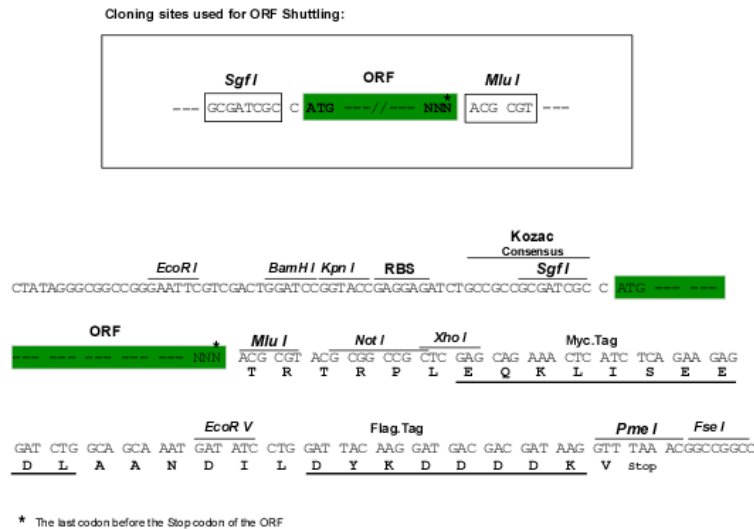
MSDRSGPTAKGKDGGKYSSLNLFDTYKGKSLEIQKPAVAPRHGLQSLGKVAIARRMPPANLPSLKAENK
 GNDPNVSLVPKDGWASKQEQSDPKSSDASTAQPPESQPLPASQTPASNQPKRPPAAPENTPLVPSGVK
 SWAQASVTHGAHGDGGRASSLLSRFSREEFPTLQAAGDQDKAAKERESAEQSSGPGPSLRPQNSTTWDRG
 GGRGPDELEGPD SKLHHGHDPRGGLQPSGPPQFPPYRGMPPFMYPPYLPFPPPYGPQGPYRYPTPDGPS
 RFPRVAGPRGSGPPMRLVEPVGRPSILKEDNLKEFDQLDQENDDGWAHAHEEVDYTEKLKFSDEEDGRDS
 DEEGAEGHRDSQSASGEERPPEADGKKGNPNSEPTPKTAWAETSRPPETEPGPPAPKPPPLPPPHRGA
 GNWGP PGDYPDRGGPPCKPPAPEDEDEAWRQRRKQSSSEISLAVERARRRREEEERRMQEERRAACAEKL
 KRLDEKFGAPDKRLKAEPAAAPPAAPSTAPPPAVPKELPAPPAPPPASAPTPETEPEEPAQAPPAQSTPT
 PGVAAAPT LVSGGGSTSTSSGSFEASPVQPLPSKEGPEPPEEVPPTTPPVKVEPKDGI GTRQPP
 SQGLGYPKYQKSLPPRFQRQQEQLLKQQQQHQWQQHQQSAPPTPVPPSPPQVTLGAVPAPQAPPPPP
 KALYPGALGRPPPMPPMNFDPWMMIPYVDPRLQGRPPLDFYPPGVHPSGLVPRERSDSGSSSEPF
 RHAPAMLRERGTTPVDPKLA WVDVFTATPAERPLTSPLRQAEDDDKMRSETPPVPPPPPYLASYPG
 FPENGAPGPPISRFPLEPGPRPLWPWPGSDEVAKIQTTPPKKEPKEETAQLTGPEAGRKPARGVSGG
 QGPPPPRRRESRTETRWGPRPGSSRRGIPPEEPGAPRRAGPIKKPPPTKVEELPPKPLEQGETPKPKK
 PDPLKITKGKLGPKETPPNGNLSPAPRLRRDYSYERVGPTSCRGRGRGEYFARGRGRGTYYGGRGRGAR
 SREFRSYREFRGDDGRGGGTGGPNHPPAPRGRTASETRSEGSEYEEIPKRRRQRGSETGSETHESDLAPS
 DKEAPTKEGTLTQVPLAPPPGAPPSPAPARFTARGGRVFTPRGVPSRRGRGGGRPPQVCPGWSPPAK
 SLAPKKPPTGPLPPSKEPLKEKLIPGPLSPVARGGSNGGSNGVMEDGERPRRRRHGRAQQQDKPPRFRL
 KQERENAARGSEGKPSLTPASAPGPEEALTTVTVAPAPRRAAKSPDL SNQNSDQANEWETASESSDF
 TSERRGKEAPPPVLLTPKAVGTPGGGGGAVPGISAMSRGDL SQRADLSKRSFSSQRP GMERQNRPG
 PGKGAGSSGSSSGGGGGGPGGRTGPRGDKRSWPSPKNRSRPPEERPPGLPLPPPPSSSAVFRLDQVVIH
 SNPAGIQQALQLSSRQGSVTAPGGHPRHKPGLQAPQGSPRPTRYEPQRVNSGLSSDPHFEEPGPMV
 RGVGGTTPRDSAGVSPFPKRRERPPRKPELLQEESLPPPHSSGFLGSKPEGPGQAESRDTGTEALTPHI
 WNRLHTATSRKSYRPSSMEPWMEPLSPFEDVAGTEMSQSDSGVDLSGDSQVSSGPCSQRSSPDGGLKGAA
 EGPPKRPGGSSPLNAVPCGPPGSEPPRRPPAPHDGDRKELPREQPLPPGPIGTERSQRTDRGTEPGPI
 RPSHRPGPPVQFGTSDKSDLRLLVVGDSLKA EKELTASVTEAIPVSRDWELLPSAAASAEQSKNLDSGH
 CVPEPSSSGQRLYPEVFYGSAGPSSSQISGGAMDSQLHPNSGGFRPGTPSLHPYRSQPLYLPPGPAPPSA
 LLSGLALKGQFLDFSTMQATELGKLPAGGVLYPPPSFLYSPAFCSPLPDTSLQVRQDLPSPSDFYSTP
 LQPGGQSGFLPSGAPAQMLLPMVDSQLPVNFGSLPPAPPPAPPLSLLPVGPALQPPSLAVRPPAPAPA
 TRVLPSARPFPASLGRAELHPVELKPFQDYQKLSSNLGGPGSSRTPTGRSFSGLNSRLKATPSTYSVG
 FRTQRVDLYQASPPDALRWIPKPWERTGPPPREGSPRRAEPEGSRGDKEGLPPPR

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8113_g08.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_080686

ORF Size: 6471 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_080686.3](#)

RefSeq Size: 6921 bp

RefSeq ORF: 6474 bp

Locus ID: 7916

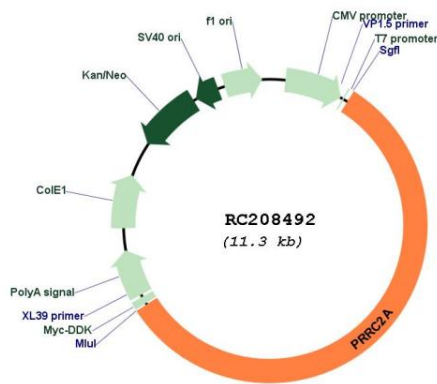
UniProt ID: [P48634](#)

Cytogenetics: 6p21.33

MW: 228.9 kDa

Gene Summary: A cluster of genes, BAT1-BAT5, has been localized in the vicinity of the genes for TNF alpha and TNF beta. These genes are all within the human major histocompatibility complex class III region. This gene has microsatellite repeats which are associated with the age-at-onset of insulin-dependent diabetes mellitus (IDDM) and possibly thought to be involved with the inflammatory process of pancreatic beta-cell destruction during the development of IDDM. This gene is also a candidate gene for the development of rheumatoid arthritis. Two transcript variants encoding the same protein have been found for this gene. [provided by RefSeq, Dec 2010]

Product images:



Circular map for RC208492