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Product datasheet for RN202443

Pds5a (NM_001083624) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pds5a (NM_001083624) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Pds5a
Synonyms:	RGD1307094; Scc-112
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

Fully Sequenced ORF:

>RN202443 representing NM_001083624
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGACTTCACGCAGCCGAAGCCTGCCACGGCCCTCTGTGGCGTCGTGAGTGCGGACGGGAAGATCGCTT
ACCCTCCGGGAGTAAAAGAGATCACGGACAAGATCACCACCGACGAAATGATCAAACGTTTGAAGATGGT
AGTGAAAACTTTTATGGATATGGATCAGGATTCAGAAGATGAAAAACAACAGTATCTCCCACTAGCCTTG
CATCTTGCATCTGAATTCTTTCTCAGGAACCCTAATAAAGATGTGCGCCTTCTTGTAGCTTGTTGTTTGG
CTGATATATTTCGAATCTATGCCCCAGAAGCTCCATACACTTCCCACGATAAACTTAAGGACATATTTCT
CTTTATTACCAGACAATTAAAAGGTTTGGAGGATACAAAGAGTCCACAGTTTAATAGATATTTTTATTTA
TTAGAGAATTTAGCTTGGGTTAAATCATATAACATCTGCTTTGAATTGGAAGATTGCAATGAAATTTTTA
TTCAGCTTTTTAGGACTCTCTTCTCAGTAATCAACAATAGCCACAATAAGAAGGTACAAATGCACATGTT
AGACTTGATGAGTTCTATCATCATGGAAGGTGATGGAGTTACTCAAGAATTATTGGATTCCATTCTTATC
AATCTCATCCCTGCACACAAGAACTTAAATAAACAGTCCTTTGACCTTGCGAAAGTTCTGTTGAAAAGGA
CAGTCCAGACTATTGAAGCATGTATTGCCAATTTTTTCAATCAAGTGCTGGTGCTGGGCAGATCATCAGT
CAGTGATCTCTCCGAACACGTATTTGATCTGATTCAGGAACTTTTTGCTATAGATCCTCATTTATTGTTA
TCTGTCATGCCACAGCTTGAATTCAAACTGAAGAGCAATGACGGTGAGGAGCGGCTAGCTGTGGTGCGAC
TACTAGCAAAATTGTTTGGCTCTAAAGATTCAGATTTAGCAACACAGAATCGGCCTCTTTGGCAGTGCTT
TCTTGGGCGATTTAATGACATTCATGTTCCTGTGAGGTTAGAAAGTGTGAAGTTTGCCAGTCACTGTTTA
ATGAATCACCCTGATTTAGCAAAAGATCTCACAGAATATTTAAAAGTTAGGTCACATGATCCGGAAGAAG
CCATTCGTCATGATGTCATTGTTACTATAATAACAGCTGCCAAAAGAGACCTTGCCTTAGTAAATGATCA
GTTGCTTGGCTTTGTCAGGGAAAGGACACTGGATAAACGGTGGCGAGTAAGAAAAGAAGCCATGATGGGT
CTGGCTCAACTCTATAAGAAATACTGTCTTCATGGTGAAGCAGGAAAGGAAGCTGCAGAGAAAGTCAGTT
GGATAAAGGACAAACTTCTACACATCTATTATCAGAATAGCATTGATGACAAACTGTTGGTAGAGAAAAT
CTTTGCTCAGTATCTTGTTCCCCATAACCTGGAAACAGAAGAGAGAATGAAATGCTTATATTATTTATAT

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GCTAGCTTGGATCCAAATGCTGTAAAAGCTCTCAATGAAATGTGGAAGTGTCAGAATATGCTTCGGAGTC
ACGTGCGGGAACTGTTGGACTTGCACAAGCAGCCTACATCGGAGGCTAACTGTTCTGCCATGTTTGGGAA
ACTGATGACCATAGCAAAGAATTTGCCTGACCCTGGGAAAGCACAAGATTTTGTAAAGAAATTTAACCAG
GTTCTTGGTGATGATGAAAAACTGAGGTCTCAGTTGGAATTATTAATCAGCCCAACCTGTTCATGCAAGC
AAGCTGACATTTGTGTGAGGGAAATAGCTCGGAAACTTGCAAATCCTAAGCAGCCAACCAACCCCTTTCT
AGAGATGGTCAAGTTTCTGCTGGAAAGAATCGCTCCTGTGCACATTGATTCAGAAGCCATAAGTGCACTA
GTGAAACTGATGAACAAGTCGATAGAAGGGACAGCCGATGATGAAGAGGAGGGTGTCAGTCCAGACTCAG
CCATTCGCTCAGGGCTTGAGCTTCTTAAGGTTCTGTCTTTCACACATCCTACCTCGTTCCACTCTGCAGA
GACGTATGAGTCCTTGTTACAGTGCCTAAGAATGGAGGACGACAAGGTAGCGGAAGCAGCAATACAGATT
TTTAGAAACACAGGCCACAAAATAGAGACTGACCTTCCCCAGATACGGTCAACCTTGATCCCCATTTTAC
ATCAGAAAGCCAAGCGGGGCACTCCTCACCAAGCAAAGCAGGCTGTGCACTGCATCCATGCCATCTTCTC
AAACAAGGAAGTCCAGTTGGCACAGATTTTTGAGCCACTCAGTCGGAGTCTGAATGCTGATGTACCAGAG
CAACTTATAACTCCATTAGTTTCACTGGGCCACATTTCCATGTTAGCACCAGATCAGTTTGCCTCCCCAA
TGAAATCTGTAGTGGCAAACTTCATTGTTAAGGATCTTCTAATGAATGACAGGTCAACAGGTGAGAAGAA
TGGAAAATTATGGTCTCCGGATGAGGAAGTATCTCCTGAAGTGCTAGCAAAGGTACAGGCAATTAAACTT
CTGGTAAGGTGGCTGTTGGGTATGAAGAACAATCAGTCCAAATCTGCCAACTCAACTCTGCGGCTGTTAT
CAGCCATGCTGGTCAGTGAGGGGGACCTGACAGAGCAGAAGAGGATCAGTAAATCTGATATGTCTCGCTT
GCGATTAGCTGCTGGTAGTGCCATAATGAAGCTTGCTCAGGAACCTTGCTACCATGAAATTATTACCCCA
GAACAGTTTCAGCTCTGTGCACTGGTTATTAACGATGAGTGCTACCAAGTAAGGCAGATATTTGCCCAGA
AGCTTCATAAAGCCCTTGTGAAGTTACTTCTCCCATTGGAGTATATGGCGATCTTTGCTTTGTGTGCCAA
AGATCCTGTGAAGGAAAGAAGAGCACATGCTCGCCAGTGTTTATTAAAGAACATCAGCATACGCAGGGAG
TACATTAAACAGAACCCCATGGCTACTGAGAAGTTATTATCATTGCTGCCTGAATATGTGGTTCCATATA
TGATTCACCTGCTAGCCCATGATCCTGATTTTACAAGATCACAAGATGTTGATCAACTTCGTGATATAAA
AGAGTGCCTGTGGTTTATGCTTGAAGTTTTAATGACAAAGAATGAGAACAACAGCCATGCATTCATGAAG
AAGATGGCAGAGAATATCAAGCTGACCAGAGACGCCCAGTCTCCAGATGAAGCCAAGACAAATGAAAAAC
TTTATACAGTTTGTGATGTGGCTCTGTGTGTTATAAATAGTAAGAGTGCTTTGTGCAATGCAGACTCACC
AAAGGACCCAGTCCTCCCAATGAAATTCTTTACACAACCTGAAAAGGACTTCTCTAATGACAAAAGCTAT
ATTTCGGAAGAGACAAGAGTTCTTCTGTTGACAGGAAAGCCAAAGCCTACTGGAGTACTAGGTACAGTAA
ACAAGCCCTTATCAGCAACGGGAAGGAAGCCTTATGTTAGGAGTGCCGGCACAGAGACTGGAAGCAATAT
TAACGCCAGTTCAGAGCTGAGTCCTTCGGCCGGAAATCGTTCAAGGGAACAGAGTTCAGAGGCATCAGAA
ACTGGAGTTAGTGAAAATGAGGAGAATCCTGTGAGAATAATTTCTGTCACACCTGTAAAGAGTATTGATA
CGGTAAAGAATAAGGAAATTAATTCTGATCAGTCTACCCAAGGCAACATCAGCAGTGACCGAGGAAAGAA
AAGAATTGTAACAGCAGCTGGTGCTGAGAATATCCAACAAAAACCAGATGAGAAAGCAGATGAGTCAGGA
CCCCCTGCCCCTTCCAAACCCAGGAGAGGACGTCGCCCCAAATCTGAATCTCAGGGCAATGCAACCAAAA
ACGATGATCTAAGTAAACCTGTTAGCAAGGGAAGGAAGAGAGCTGCAGGCAGCCAGGAGAGTCTGGAGGC
AGGCAATGCCAAAGCGCCCAAGCTACAAGATGGAGCCAAAAAGGCAGTTCCCGCCGAGAGACAAATTGAT
TTACAAAGGTAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_001083624

Insert Size: 4002 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:	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_001083624.1, NP_001077093.1
RefSeq Size:	4030 bp
RefSeq ORF:	4002 bp
Locus ID:	305343
UniProt ID:	A4L9P7
Cytogenetics:	14p11
Gene Summary:	Probable regulator of sister chromatid cohesion in mitosis which may stabilize cohesin complex association with chromatin. May couple sister chromatid cohesion during mitosis to DNA replication. Cohesion ensures that chromosome partitioning is accurate in both meiotic and mitotic cells and plays an important role in DNA repair (By similarity).[UniProtKB/Swiss-Prot Function]