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Product datasheet for RN201970

Pagr1 (NM_001013901) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pagr1 (NM_001013901) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Pagr1
Synonyms:	Pa1; RGD1305592
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>RN201970 representing NM_001013901 Red=Cloning site Blue=ORF Orange=Stop codon TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCCGCGATCGCC ATGTCCCTTGCCCTGGGCCATGGAACCATTGCAGGCAGCACAGCGGCGCCTCTGTCTGAAGAAGGGGAAG TGACTTCCGGCCTCCAGGCTCTGGCGGTGGAGGACACTGGAGGTCCCTCTGTCTCGGCTAGTAAGGCCGA GGAAGAGGGGAAAGGCAGTCAGGAGGAGGCCGGGCGTGAGGCATCCAGGGCTGAGGAGGCACTAGAAGCT TCCAGCGCTGTGAGCGACGAGCGTGCCGAGGGAGAATCCGAAGACTGGTGCGTGCCCTGCAGCGACGAGG AGGTGGAGCTGCCGGCCAATGGGCAGTCCTGGATGCCCCCACCCTCCGAAATCCAGCGGCTCTATGAACT GCTGGCTACCCAAGGTACTCTGGAGCTTCAAGCGGAGATCCTACCCCGCCGGCCGCCTACTCCTGAGGCC CAGAGTGAAGAGGAGAGATCAGATGAGGAGCCAGAGGCCAAAGAGGAGGAGGAGGAAAAGTGA ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAGGTTTAA
Restriction Sites:	SgfI-MluI
ACCN:	NM_001013901
Insert Size:	483 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).

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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_001013901.1, NP_001013923.1
RefSeq Size:	1594 bp
RefSeq ORF:	483 bp
Locus ID:	293500
UniProt ID:	Q5M865
Cytogenetics:	1q37
Gene Summary:	Its association with the histone methyltransferase MLL2/MLL3 complex is suggesting a role in epigenetic transcriptional activation. However, in association with PAXIP1/PTIP is proposed to function at least in part independently of the MLL2/MLL3 complex. Proposed to be recruited by PAXIP1 to sites of DNA damage where the PAGR1:PAXIP1 complex is required for cell survival in response to DNA damage independently of the MLL2/MLL3 complex. However, its function in DNA damage has been questioned. During immunoglobulin class switching in activated B-cells is involved in transcription regulation of downstream switch regions at the immunoglobulin heavy-chain (Igh) locus independently of the MLL2/MLL3 complex. Involved in both estrogen receptor-regulated gene transcription and estrogen-stimulated G1/S cell-cycle transition. Acts as transcriptional cofactor for nuclear hormone receptors. Inhibits the induction properties of several steroid receptors such as NR3C1, AR and PPARG; the mechanism of inhibition appears to be gene-dependent.[UniProtKB/Swiss-Prot Function]