

Product datasheet for **RN202541**

Abraxas1 (NM_001009633) Rat Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Abraxas1 (NM_001009633) Rat Untagged Clone
Tag: Tag Free
Symbol: Abraxas1
Synonyms: Ccdc98; Fam175a; RGD1305287
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >RN202541 representing NM_001009633
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGAGGGCGAGAGCACGTTGGGGTGTGTCTGGCTTCGTGCTTGGCGCGCTCACCTCCAGCATCTCA
 AACTGACTCAGATACGGAGGGTCTTCTCCTCGGTGAAATGAAAGGTGAAGCCAAGAATAGCATCACTGA
 CTCACAGATGGACAGCGTTAAAGTCGTCTACACAATTGACATTGACAAATATATCCATGCTACCGGCTT
 TTTAGCTTTTATAATTCTTTAGGTGAAGTAAATGAACACGCACTGAAGAAAATCTTTCAAATGTCAAAA
 AGACTGTGGTGGGTTGGTATAAATCCGTCGCTCACTCGGATCAGATAATGACATTTAGAGAGCAGTTGCT
 CCACAGAACTTACAGACGCATCTTTCAAGCCCAGAGCTTGTTTTTCTGTTGTTAACACCAAGTATAACA
 ACAGAGAGCTGCTGCACTCACTGCCTGGAACACGGCCTGTACAAACCTCAAAGTGGGCTTTTTCATAAGG
 TACCTTTGGTGGTTACCAATCTGGGAATGTCTGATCAACTGGGTATAAAACAGAGTCTGTTTCCTGTAC
 GTCCACTGTCTTTAGCAGAGCTGTGAGGACATACAGTTCTCAATTTTTAATGAAGATGGATCATTAAAG
 GAAGTACGTAAGATAAATGAAATGTATGCTGCTATACAAGAAGAATTAAGACTATATGCCAAAAAGTTG
 AACAAAGTGAACGAGAAGTAGAGAACTATTGATGGATGTAACCGATTAAAAGAAGTTAGAAAAAACA
 GCAAGCAGGGCTAAAGGAGCAGGAGAGAAGGCCAAAACCATCCCAGGAGAACATTCTCCTCTGCCAA
 GCTTTACGAACATTCTTTCCAGAGTCTCGAGTTCTTCACTCTTGCCTATTTCTTTGAAAAATAGACATA
 TTTCTCACAGTGGGTGTAACACTGACCACCATCTTGATGTGGTGGATAAGCTAACCTTAATGGTGGAGTA
 CGTTTACAGCCCTGAAGCTAGTCCAGCACCTGCAGCCCCACTGAGCAAACGTAAGCTCTAGACACACAA
 GATCAGTGGCCTGCGAAGAGACCACGGCTGCTAGAGTCAGAAAGCAGACCTGGGCCAGCATTTTCGAGGCA
 GTCACCAGGACAAAGCCTCCTCAAGCAGCCTCGATATAGACACAGAGGTGGGGAGCCCGGAAGATGATAC
 TGACTACCCTCGCTCTCCACATTT**TGA**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA



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Restriction Sites:	Sgfl-Mlul
ACCN:	NM_001009633
Insert Size:	1218 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_001009633.1</u> , <u>NP_001009633.1</u>
RefSeq Size:	1513 bp
RefSeq ORF:	1218 bp
Locus ID:	289468
UniProt ID:	<u>Q5I0F1</u>
Cytogenetics:	14p22
Gene Summary:	Involved in DNA damage response and double-strand break (DSB) repair. Component of the BRCA1-A complex, acting as a central scaffold protein that assembles the various components of the complex and mediates the recruitment of BRCA1. The BRCA1-A complex specifically recognizes 'Lys-63'-linked ubiquitinated histones H2A and H2AX at DNA lesion sites, leading to target the BRCA1-BARD1 heterodimer to sites of DNA damage at DSBs. This complex also possesses deubiquitinase activity that specifically removes 'Lys-63'-linked ubiquitin on histones H2A and H2AX.[UniProtKB/Swiss-Prot Function]