

Product datasheet for **RR202541**

Abraxas1 (NM_001009633) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Abraxas1 (NM_001009633) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Abraxas1
Synonyms:	Ccdc98; Fam175a; RGD1305287
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RR202541 representing NM_001009633 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGATCTGCC
GCC**CGGATCGCC**

ATGGAGGGCGAGAGCACGTTGGGGGTGTTGTCTGGCTTCGTGCTTGGCGCGCTCACCTCCAGCATCTCA
ACACTGACTCAGATACGGAGGGTCTTCTCCTCGGTGAAATGAAAGGTGAAGCCAAGAATAGCATCACTGA
CTCACAGATGGACAGCGTTAAAGTCGTCTACACAATTGACATTCAGAAATATATCCATGCTACCGGCTT
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AGACTGTGGTGGGTTGGTATAAATCCGTCGCTCACTCGGATCAGATAATGACATTTAGAGAGCAGTTGCT
CCACAGAACTTACAGACGCATCTTTCAAGCCCAGAGCTTGTTTTTCTGTTGTTAACACCAAGTATAACA
ACAGAGAGCTGCTGCACTCACTGCCTGGAACACGGCCTGTACAAACCTCAAAGTGGGCTTTTTTCATAAGG
TACCTTTGGTGGTTACCAATCTGGGAATGTCTGATCAACTGGGTTATAAAACAGAGTCTGTTTCCTGTAC
GTCCACTGTCTTTAGCAGAGCTGTGAGGACATACAGTTCTCAATTTTTAATGAAGATGGATCATTAAAG
GAAGTACGTAAGATAAATGAAATGTATGCTGCTATACAAGAAGAATTAAGACTATATGCCAAAAAGTTG
AACAAAGTGAACGAGAAGTAGAGAACTATTGATGGATGTAACCGATTAAAAGAAGTTAGAAAAAACA
GCAAGCAGGGCTAAAGGAGCAGGAGAGAAGGCCAAAACCATCCCAGGAGAACATTCTCCTCTGCCAA
GCTTTACGAACATTCTTTCCAGAGTCTCGAGTTCTTCACTCTTGCCTTATTTCTTTGAAAAATAGACATA
TTTCTCACAGTGGGTGTAACACTGACCACCATCTTGATGTGGTGGATAAGCTAACCTTAATGGTGGAGTA
CGTTTACAGCCCTGAAGCTAGTCCAGCACCTGCAGCCCCACTGAGCAAACGTAAGCTCTAGACACACAA
GATCAGTGGCCTGCGAAGAGACCACGGCTGCTAGAGTCAGAAAGCAGACCTGGGCCAGCATTTTCGAGGCA
GTCACCAGGACAAAGCCTCCTCAAGCAGCCTCGATATAGACACAGAGTGGGGAGCCCGGAAGATGATAC
TGACTACCCTCGCTCTCCACATTTTGACTACCCTCGCTCTCCACATTT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RR202541 representing NM_001009633
 Red=Cloning site Green=Tags(s)

MEGESTLGVLSGFVLGALTFQHLNTDSDTEGLLLGEMKGEAKNSITDSQMDSVKVYVYTIQKYIPCYRL
 FSFYNSLGEVNEHALKKILSNVKKTVVGYWYKFRRHSDQIMTFREQLLHRNLQTHLSSPELVFLLTPSIT
 TESCCETHLEHGLYKPKQSLFHKVPLVVTNLGMSDQLGYKTESVSCTSTVF SRAVRTYSSQFFNEDGSLK
 EVRKINEMYAAIQEELKTIQKVEQSEREVEKLLMDVNRLKEVRKKQQAQAKGAGEKSNHPQENILLCQ
 ALRRTFFPESRVLHSCVLSLKNRHISHSGCNTDHHLDVVDKLTLMVEYVYSPEASPAPAAPLSKRKALDTQ
 DQWPAKRPRLLSESRPGPAFRGSHQDKASSSSLDIDTEVGSPEDDDTYPRSPTF*LPSLSHI

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

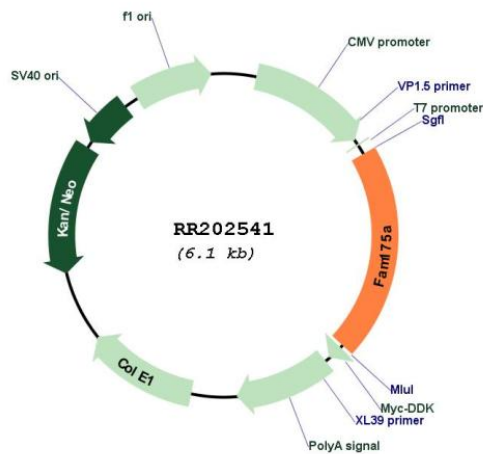
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001009633

ORF Size:	1215 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:	<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 Size:	1513 bp
RefSeq ORF:	1218 bp
Locus ID:	289468
UniProt ID:	Q5I0F1
Cytogenetics:	14p22
MW:	45.7 kDa
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]