

Product datasheet for **RR212756**

Brca1 (NM_012514) Rat Tagged ORF Clone

Product data:

| | |
|--------------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | Brca1 (NM_012514) Rat Tagged ORF Clone |
| Tag: | Myc-DDK |
| Symbol: | Brca1 |
| Vector: | pCMV6-Entry (PS100001) |
| E. coli Selection: | Kanamycin (25 ug/mL) |
| Cell Selection: | Neomycin |
| ORF Nucleotide Sequence: | >RR212756 representing NM_012514 Red=Cloning site Blue=ORF Green=Tags(s) |

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGATTTATCTGCTGTTTCAAGTCAAGAAGTACAAAATGTCCTTCATGCTATGCAGAAAATCTTGGAGT
GTCCAATCTGTTTGGAACTGATCAAAGAACCGGTTTCCACACAGTGCACCACATATTTTGCAAATTTTG
TATGCTGAAACTCCTTAACCAGAAAGAACCTTCCCAGTGCCTTTGTGTAAGAATGAGATAACCAAA
AGGAGCCTACAAGGAAGTCAAGGTTTAGTCAACTTGTGAAGAGCTGCTGAAAAATCATTGATGCTTTTG
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AGAAATGCTCATCCAATAGAATCATTGAGAAAGGAACCTGCTTTCACAGCTAAAGCCAAATCTATAAGCA
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 GATGCTGCAGCTGTGTGGGCTTCTGTGGTGAAGGAGCTTCCATTGCTCACCCTGACACAGGTGCTCAT
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AGGGACGTCTAGTGATGTGGGACTGGGTGTTGGACAGTATATCCGTCTACCGGTGTCGGGATCTGGATGC
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ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTAA

Protein Sequence:

>RR212756 representing NM_012514
Red=Cloning site Green=Tags(s)

MDLSAVRIQEVQNVLHAMQKILECPICLELIEKPVSTQCDHIFCKFCMLKLLNQKKGPSQCPLCKNEITK
RSLQGSARFSQLVEELLKIIDAFELDTGMQCANGFSFSKKNSSSELLNEDASIIQSVGYRNRVKKLQQI
ESGSATLKDSL SVQLSNLGI VRSMKKNRQTQPQNKSVYIALES DSSEERNVAPDGC SVRDQELFQIAPGG
AGDEGKLN SAKKAACDFSEGIRNIEHHQCSDKDLNPTENHATERHPEKCPRISVANVHVPECGTDARASS
LQRGTRSLLF TEDRLDAEKA EFCDRSKQSGAAVSQQSRWADSKETCNGRPVPRTEGKADPNVDSL CGRKQ
WNHPKSLCPENSGATTDVPWITLNSSIQKVNEWF SRTGEMLTSDNASDRRPASNAEAAVVLEVSNEVDGC
FSSSKKIDL VAPDPDNAVMTSGRDFSKPVENIINDKIFGKTYQRKGSRPHLNHVTEIIGTFTTEPQIIQ
EQPFTNKLKRKRSTCLHPEDFIKKADLTVVQRISENLNQGTDMQEPNDQAMSITSNQENRATGNDLQRG
RNAHPIESLRKEPAFTAKAKSISNSISDLEVELNVHSSKAPKKNRLRRKSTRCVLPLEPISRNPSPPTCA
ELQIESCGSSEETKKNNSNQTPAGHI REPQLIEDTEPAADAKKNEPNEHIRKRSASDAFPEEKLMNKAGL
LTS CSSPRKPQGPVNPSPERKGI EQLEMCQMPDNNKELGDLVLGGEPGKPTPESEESTSVSLVPD TDYD
TQNSVSILEANTVRYARTGSVQCM TQFVA SENPKELVHG SNNAGSGSECFKHPLRHELNHNQETIEMEDS
ELDTQYLQNTFQVSKRQSFALF SKLRSPQK DCTLVGARSVPSREPSPKVTSRGEQKERQQQEESEI SHVQ
AVTVTVGLPVPCQEGKPGAVTMCADV SRLCPSSHYRSCENGLNTTDKSGISQNSHFRQSVPLRSSIKTD
NRKTLTEXRF EKHTERXMGNETAVQSTIHTISLNNRGDACLEASSGSVIEVHSTGENVQGGQLDRNRGPKV
NTVSLLDSTQPGVSKQSAPVSDKYLEIKQESKAVSADFSPLFSDHLEKPMRSDKTFQVCSETPDDLDD
VEIQENASFGEGGITEKSAIFNGSVLRRESSRSPVTHASKSRSLHRGSRKLEFSEESDSTEDLPCF
QHLLSRVSTPEL TRCSSVVTQRVPEKAKGTQAPRKSSISDCNNEVILGEASQEYQFSEDAKCSGSMFSS
QHS AALGXANAL SQDPDFNPPSKQRRHQAEENEAF LSDKELISDHEDMAACLEEASDQEEDSIIPDSVA
SGYESEANL SEDCSQSDILTTQQRATMKDNL IKLQQEMAQLEAVLEQHGSQPSGHPPLPADPCALDLP
DPEQNRSGT AILT SKNINENPV SQNPKRACDDKSQPQPPDGLPSGDKEGMRPSPFKSPLTSSRCSARG
HSRSLQNRNSXSQEELLQPAXLEK SCEPHNL TGRSCLPRQDLEGTYPYPSGIRLVSSRDPDSESPKVSAL
VCTAPASTSALKISQGVVAGSCRSPAAGGADTAVVEIVSKIKPEVTS PKERAERDISMVVSGLTPKEVMI
VQKFAEKYRLALTDVITEETHV IIKTDAEFVCERTLKYFLGIAGGKWI VSYSWVIKSIQERKLLSVHEF
EVKGDVVTGSNHQGPRRSRESQEKLFEGLQIYCEPFTNMPKDELERMLQLCGASVVKELPLLTRDTGAH
PIVLVQPSAWTEDNDCPDIGQLCKGRLVMWDWVLDISIVYRCRDL DAYLVQNITCGRD GSEPDQSDND

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

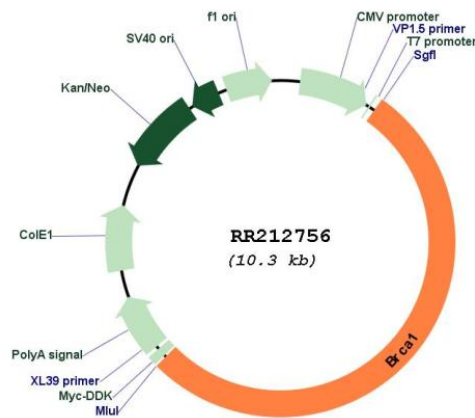
Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

Plasmid Map:



| | |
|-------------------------------|---|
| ACCN: | NM_012514 |
| ORF Size: | 5451 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: | NM_012514.1 , NP_036646.1 |
| RefSeq Size: | 5607 bp |
| RefSeq ORF: | 5454 bp |
| Locus ID: | 497672 |
| UniProt ID: | O54952 |
| Cytogenetics: | 10q31 |
| MW: | 200.1 kDa |
| Gene Summary: | involved in the DNA damage response and DNA repair [RGD, Feb 2006] |