

## Product datasheet for RC203856

### ABRAXAS2 (NM\_032182) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	ABRAXAS2 (NM_032182) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	ABRAXAS2
Synonyms:	ABRO1; FAM175B; KIAA0157
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC203856 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCGCGTCCATTTCCGGGCTACACCTTCAGTGCTGTGTGTTCCACAGCGCCAACAGCAACGCGGACC  
ACGAAGGATTTTTACTGGGAGAGGTAAGACAAGAGGAAACGTTTAGCATCAGTGACTCACAAATCAGCAA  
CACAGAATTTCTGCAAGTAATTGAAATCCATAACCATCAGCCTTGTTCAAACTTTTTAGTTTTATGAC  
TACGCAAGCAAAGTGAATGAGGAGAGTTGGACAGGATTCTTAAAGATCGGAGAAAAGAAAGTCATTGGGT  
GGTACAGATTCGGCGCAATACGCAGCAGCAGATGTCCTACAGAGAGCAGGTTCTTCAAGCAGCTCAC  
CCGCATCCTCGGCGTGCCCGACCTCGTCTTTCTTCTTTCAGCTTCATCTCCACTGCCAACAATCCACT  
CACGCTTTAGAATATGTGCTCTTCAGACCAATAGAAGGTATAATCAGAGGATATCACTCGCTATCCCCA  
ATCTAGGAAATACTAGCCAGCAAGAGTACAAAGTGTCTTCAGTGCCAAATACTTCTCAGAGTTATGCCAA  
AGTGATTAAGAACAATGGTACTGACTTTTTTGACAAGGATGGAGTGATGAAAGACATCAGGGCGATTTAT  
CAGGTTTATAATGCACCTCAGGAGAAAGTTCAGGCAGTGTGTGCAGATGTTGAAAAGAGTGAGCGAGTTG  
TTGAATCTGTGAGCAGCAAGTGAACAAATTAAGAAGACAAATCACTCAGAGGAAAAATGAAAAGGAACA  
AGAAAAGAGATTGCAGCAGGCAGTGTAAAGCAGACAGATGCCGTCTGAAAGCTTGGACCCAGCGTTCAGT  
CCTCGGATGCCGTCTCTGGGTTTGCAGCTGAAGGCAGAAGTACACTTGGAGATGCAGAGGCCCTCGGATC  
CTCTCCCTTACTCTGATTTTACCCAAACAATCAAGAAAGTACTTTGAGCCACTCTCGCATGGAAAG  
GAGTGTCTTTATGCCTCGACCTCAAGCTGTGGGCTCTTCAATTATGCTTCCACCAGTGCCGGACTGAAG  
TATCCTGGAAGTGGGCTGACCTTCTCTCCCAAAGAGCAGCTGGAGACAGTGGTGAGGATTCAGACG  
ACAGTGATTATGAAAATTTGATTGACCCTACAGAGCCTTCTAATAGTGAATACTCACATTCAAAGGATTC  
TCGACCCATGGCACATCCCGACGAGGACCCAGGAACACTCAGACCTCCAGATT

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RC203856 protein sequence  
Red=Cloning site Green=Tags(s)

MAASISGYTFSAVCFHSANSNADHEGFLLGVEVRQEETFSISDSQISNTEFLQVIEIHNHQPCSKLFSFYD  
 YASKVNEESLDRILKDRRKKVIGWYRFRNTQQQMSYREQVLHKQLTRILGVPDLVFLFSFISTANNST  
 HALEYVLFRRPNRRYNQRI SLAIPNLGNTSQEYKVSVPNTSQSYAKVIKEHGTDFDKDGMKDIRAIY  
 QVYNALQEKVQAVCADVEKSERVVEESCQAEVNKLRRQITQRKNEKEQERRLQQAVLSRQMPSESLDPAFS  
 PRMPSSGFAAEGRSTLGDAAESDPPPPYSDFHPNNQESTLSHSRMERSVFMPPRQAVGSSNYASTSAGLK  
 YPGSGADLPPPQRAAGDSGEDSDSDYENLIDPTEPSNSEYSHSKDSRPMAPDEDPRTQTSQI

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mk6010\\_e03.zip](https://cdn.origene.com/chromatograms/mk6010_e03.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_032182

**ORF Size:** 1245 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:**

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\\_032182.4](#)

**RefSeq Size:** 3008 bp

**RefSeq ORF:** 1248 bp

**Locus ID:** 23172

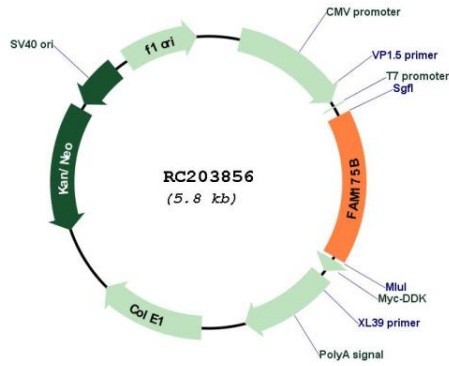
**UniProt ID:** [Q15018](#)

**Cytogenetics:** 10q26.13

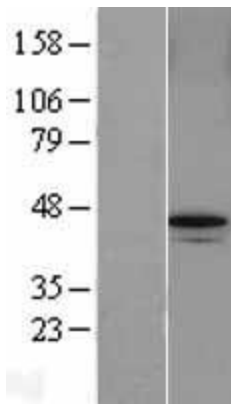
**MW:** 46.9 kDa

**Gene Summary:** Component of the BRISC complex, a multiprotein complex that specifically cleaves 'Lys-63'-linked polyubiquitin, leaving the last ubiquitin chain attached to its substrates (PubMed:19214193, PubMed:20032457, PubMed:20656690, PubMed:24075985). May act as a central scaffold protein that assembles the various components of the BRISC complex and retains them in the cytoplasm (PubMed:20656690). Plays a role in regulating the onset of apoptosis via its role in modulating 'Lys-63'-linked ubiquitination of target proteins (By similarity). Required for normal mitotic spindle assembly and microtubule attachment to kinetochores via its role in deubiquitinating NUMA1 (PubMed:26195665). Plays a role in interferon signaling via its role in the deubiquitination of the interferon receptor IFNAR1; deubiquitination increases IFNAR1 activities by enhancing its stability and cell surface expression (PubMed:24075985, PubMed:26344097). Down-regulates the response to bacterial lipopolysaccharide (LPS) via its role in IFNAR1 deubiquitination (PubMed:24075985). Required for normal induction of p53/TP53 in response to DNA damage (PubMed:25283148). Independent of the BRISC complex, promotes interaction between USP7 and p53/TP53, and thereby promotes deubiquitination of p53/TP53, preventing its degradation and resulting in increased p53/TP53-mediated transcription regulation and p53/TP53-dependent apoptosis in response to DNA damage (PubMed:25283148).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RC203856



Western blot validation of overexpression lysate (Cat# [LY403148]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC203856 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).