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Product datasheet for SC106213

ABRAXAS2 (NM_032182) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ABRAXAS2 (NM_032182) Human Untagged Clone
Tag:	Tag Free
Symbol:	ABRAXAS2
Synonyms:	ABRO1; FAM175B; KIAA0157
Mammalian Cell Selection:	None
Vector:	pCMV6-XL5
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_032182, the custom clone sequence may differ by one or more nucleotides

ATGGCGGCGTCCATTTCGGGCTACACCTTCAGTGCTGTGTGTTTCCACAGCGCCAACAGCAACGCGGACC
ACGAAGGATTTTTACTGGGAGAGGTAAGACAAGAGGAAACGTTTAGCATCAGTGACTCACAAATCAGCAA
CACAGAATTTCTGCAAGTAATTGAAATCCATAACCATCAGCCTTGTTCAAAACTTTTTAGTTTTTATGAC
TACGCAAGCAAAGTGAATGAGGAGAGTTTGGACAGGATTCTTAAAGATCGGAGAAAGAAAGTCATTGGGT
GGTACAGATTCCGGCGCAATACGCAGCAGCAGATGTCCTACAGAGAGCAGGTTCTTCACAAGCAGCTCAC
CCGCATCCTCGGCGTGCCCGACCTCGTCTTTCTTCTCTTCAGCTTCATCTCCACTGCCAACAATTCCACT
CACGCTTTAGAATATGTGCTCTTCAGACCAAATAGAAGGTATAATCAGAGGATATCACTCGCTATTCCCA
ATCTAGGAAATACTAGCCAGCAAGAGTACAAAGTGTCTTCAGTGCCAAATACTTCTCAGAGTTATGCCAA
AGTGATTAAAGAACATGGTACTGACTTTTTTGACAAGGATGGAGTGATGAAAGACATCAGGGCGATTTAT
CAGGTTTATAATGCACTTCAGGAGAAAGTTCAGGCAGTGTGTGCAGATGTTGAAAAGAGTGAGCGAGTTG
TTGAATCTTGTCAGGCAGAAGTGAACAAATTAAGAAGACAAATCACTCAGAGGAAAAATGAAAAGGAACA
AGAAAGAAGATTGCAGCAGGCAGTGTTAAGCAGACAGATGCCGTCTGAAAGCTTGGACCCAGCGTTCAGT
CCTCGGATGCCGTCCTCTGGGTTTGCAGCTGAAGGCAGAAGTACACTTGGAGATGCAGAGGCCTCGGATC
CTCCTCCCCCTTACTCTGATTTTCACCCAAACAATCAAGAAAGTACTTTGAGCCACTCTCGCATGGAAAG
GAGTGTCTTTATGCCTCGACCTCAAGCTGTGGGCTCTTCCAATTATGCTTCCACCAGTGCCGGACTGAAG
TATCCTGGAAGTGGGGCTGACCTTCCTCCTCCCCAAAGAGCAGCTGGAGACAGTGGTGAGGATTCAGACG
ACAGTGATTATGAAAATTTGATTGACCCTACAGAGCCTTCTAATAGTGAATACTCACATTCAAAGGATTC
TCGACCCATGGCACATCCCGACGAGGACCCCAGGAACACTCAGACCTCCCAGATTTAA

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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_032182 unedited
TGTAATACGACTCACTATAGGGCGGCCGCGAATTCGGCACGAGGCCTCGTGCCGAATTCG
GCACGAGGGGAGAGTACGTCGGCGGTGCTCTCGGGCTTTGTGCTCGGCGCACTCGCTTTC
CAGCACCTCAACACGGACTCGGACACGGAAGGTTTTCTTCTTGGGGAAGTAAAAGGTGAA
GCCAAGAACAGCATTACTGATTCCCAAATGGATGATGTTGAAGTTGTTTATACAATTGAC
ATTCAGAAATATATTCCATGCTATCAGCTTTTTAGCTTTTATAATTCTTCAGGCGAAGTA
AATGAGCAAGCACTGAAGAAAATATTATCAAATGTCAAAAAGAATGTGGTAGGTTGGTAC
AAATTCCGTCGTCATTCAGATCAGATCATGACGTTTAGAGAGAGGCTGCTTCACAAAAAC
TTGCAGGAGCATTTTTCAAACCAAGACCTTGTTTTTCTGCTATTAACACCAAGTATAATA
ACAGAAAGCTGCTCTACTCATCGACTGGAACATTCCTTATATAAACCTCAAAAAGGACTT
TTTCACAGGGTACCTTTAGTGGTTGCCAATCTGGGCATGTCTGAACAACTGGGTTATAAA
ACTGTATCAGGTTCCTGTATGTCCACTGGTTTTAGCCGAGCAGTACANACACACAGCTCT
AAATTTTTTGAAGAAGATGGATCCTTANAGGAGGTACATAAGATAAATGANATGTATGCT
TCATTTACAGAGGAAATTAAGAGATATGCAAAAAAGTGGAAGACAGTGAACAAGCAGTAG
ATTAACTAGTAAAGGATGTAAACAGATTAAAACGAGAAATTTGAGAAAGGAGAGGAGCAC
AGATTCAGGGCAGCAGAGAGAAGAACTNCANAAAGACCCTCAGGAGAACATTNTTCTTTG
GCAGGCATTACGGCACT

Restriction Sites: ECoRI-NOT

ACCN: NM_032182

Insert Size: 2000 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:
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_032182.1, NP_115558.1

RefSeq Size: 3008 bp

RefSeq ORF: 903 bp

Locus ID: 23172

UniProt ID: Q15018

Cytogenetics: 10q26.13

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]