

Product datasheet for **SC325153**

SPATA2 (NM_001135773) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Tag Free
Symbol:	SPATA2
Synonyms:	PD1; PPP1R145; tamo
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



Fully Sequenced ORF:

>SC325153 representing NM_001135773.
Blue=Insert sequence Red=Cloning site Green=Tag(s)

GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGGGAAGCCAGTTCAATGGATACTAAATCAAGGATGACTTATTCGGAAGTACGTGCAAGTCCAT
GAGAGCAAAGTGGATACCAACCAGCAGGCGGCTGGCAGCGATGAGTGCCTGCGGGTGGCAGCC
TCAACCTGCTCAGCCTGCACAAGGTGGATCCCTTTATCGATTCCGGCTGATCCAGTTCTATGAGGTG
GTGGAGAGCTCCTTGCCTCGCTCAGTCTCTAGCCTGCGGGCTGTCACGGCGCCTTCAGCATGCTG
GAGACGGTGGGCATCAACCTCTTCTCTACCCGTGGAAGAAGGAATTGAGAAGCATCAAGACCTACACG
GGCCCTTTTGTATTATGTCAAGTCGACATTACTGGAAGAGGACATCCGAGCCATCCTGAGCTGCATG
GGCTACACACCTGAGCTGGGCACTGCATACAAGCTCAGAGAGCTCGTGGAGACCTCCAGGTGAAGATG
GTCTCCTTTGAGCTCTTCTGGCCAAAGTCGAGTGTGAGCAGATGCTAGAAATCCACTCACAAGTGAAG
GACAAGGGCTACTCCGAGCTGGACATTGTGAGCGAGCGCAAGAGCAGTGCAGAGGATGTGCGCGGCTGC
TCGGACGCCCTGCGGGCGGGCAGAGGGCGGGAGCACCTGACGGCCTCCATGTCACGAGTGGCACTC
CAGAAGTCGCCAGCGAGCGGGCGGCCAAGGACTACTACAAGCCCCGCTGACCAAGCCCTCGAGGTCA
GTGGATGCCTATGACAGCTACTGGGAGAGCCGGAAGCCACCCTGAAGGCCTCATTGAGTCTTCGGAAG
GAGCCTGTGGCAACGGATGTGGGGGACGACCTCAAGGATGAGATCATCCGCCATCCCTTCGCTGCTG
ACCATGGCCAGCTCCCCACGGCAGCCCGGATGTGCTTCCACCCGCTCCCCAGCAACGGCCCCGGCC
CTGCTGCGCGGTACCTACTTCTCCACTCAGGATGACGTGGATCTGTACACAGACTCTGAACCCAGGGCC
ACCTACCGTCGGCAGGATGCTCTGCGCCGGATGTGTGGCTGCTCAGAAACGATGCCCACTCCCTCTAC
CACAAGCGCTCGCCCCCTGCCAAAGAGTCCGCCCTCTCAAGTGCCAAAGCTGCGGGCTGTCTGCAGC
TCCTCCCTCTGCCAGCGCTGTGACAGCCTGCTCACCTGTCTCCAGCTTCAAGCCAGCGCCTTCCCC
AGCAAGGCCTCGACTCATGACAGCCTGGCCACGGGGCATCTCTGCGGGAGAAGTACCCAGGCCAGACT
CAGGGCCTCGACCGCTCCCGCACCTTCACTCCAAATCCAAGCCCTCCACCACGCCCACTTCCCGCTGT
GGCTTCTGCAACCGCCAGGCGCCACCAACACCTGCACCCAGTGTTCAAAAGTCTCATGTGACGCTGC
CTCAGCGCTTACCATTATGACCCCTGCTACAAAAGAGTGAGCTGCACAAGTTATGCCCAACAACCA
CTGAACCTACAAGTCCACCCAGCTCTCCCATCTCGTGTACAGATAG
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC

Restriction Sites:

Sgfl-MluI

ACCN:

NM_001135773

Insert Size:

1563 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).

OTI Annotation:

This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	<u>NM_001135773.1</u>
RefSeq Size:	4156 bp
RefSeq ORF:	1563 bp
Locus ID:	9825
UniProt ID:	<u>Q9UM82</u>
Cytogenetics:	20q13.13
MW:	58.4 kDa
Gene Summary:	Bridging factor that mediates the recruitment of CYLD to the LUBAC complex, thereby regulating TNF-α-induced necroptosis (PubMed:27307491, PubMed:27458237, PubMed:27545878, PubMed:27591049). Acts as a direct binding intermediate that bridges RNF31/HOIP, the catalytic subunit of the LUBAC complex, and the deubiquitinase (CYLD), thereby recruiting CYLD to the TNF-R1 signaling complex (TNF-RSC) (PubMed:27458237, PubMed:27545878, PubMed:27591049). Required to activate the 'Met-1'- (linear) and 'Lys-63'-linked deubiquitinase activities of CYLD (PubMed:27458237, PubMed:27591049). Controls the kinase activity of RIPK1 and TNF-α-induced necroptosis by promoting 'Met-1'-linked deubiquitination of RIPK1 by CYLD (By similarity).[UniProtKB/Swiss-Prot Function] Transcript Variant: This variant (2) has an alternate 5' UTR exon, as compared to variant 1.