

Product datasheet for **SC116373**

SPATA2 (NM_006038) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SPATA2 (NM_006038) Human Untagged Clone
Tag:	Tag Free
Symbol:	SPATA2
Synonyms:	PD1; PPP1R145; tamo
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >NCBI ORF sequence for NM_006038, the custom clone sequence may differ by one or more nucleotides

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ATGGGGAAGCCCAGTTCAATGGATACTAAATCAAGGATGACTTATTTTCGGAAGTACGTGCAGTTCCATG
AGAGCAAAGTGGATACCACCACCAGCAGGCAGCGCCTGGCAGCGATGAGTGCCTGCGGGTGGCAGCCTC
AACCCTGCTCAGCCTGCACAAGGTGGATCCCTTTTATCGATTCCGGCTGATCCAGTTCTATGAGGTGGTG
GAGAGCTCCTTGGCTCGCTCAGCTCCTTAGCCTGCGGGCTCTGCACGGCGCCTTCAGCATGCTGGAGA
CGGTGGGCATCAACCTCTTCTCTACCCGTGGAAGAAGGAATTGAGAAGCATCAAGACCTACACGGGCC
TTTTGTTTATTATGTCAAGTCGACATTACTGGAAGAGGACATCCGAGCCATCCTGAGCTGCATGGCTAC
ACACCTGAGCTGGGCACTGCATACAAGCTCAGAGAGCTCGTGGAGACCTCCAGGTGAAGATGGTCTCCT
TTGAGCTCTTTTGCCAAAGTCGAGTGTGAGCAGATGCTAGAAATCCACTCACAAGTGAAGGACAAGGG
CTACTCCGAGCTGGACATTGTGAGCGAGCGCAAGAGCAGTGCAGAGGATGTGCGGGCTGCTCGGACGCC
CTGCGGGCGGGCAGAGGGCCGGGAGCACCTGACGGCCTCCATGTCACGAGTGGCACTCCAGAAGTCGG
CCAGCGAGCGGGCGGCCAAGGACTACTACAAGCCCCGCTGACCAAGCCCTCGAGGTGAGTGGATGCCTA
TGACAGCTACTGGGAGAGCCGGAAGCCACCCCTGAAGGCCTCATTGAGTCTTCGGAAGGAGCCTGTGGCA
ACGGATGTGGGGGACGACCTCAAGGATGAGATCATCCGCCATCCCTTTCGCTGTGACCATGGCCAGCT
CCCCCACGGCAGCCCGGATGTGCTTCCACCCGCTCCCCAGCAACGGCCCGGCTGTGCGCGGTAC
CTACTTCTCCACTCAGGATGACGTGGATCTGTACACAGACTCTGAACCCAGGGCCACCTACCGTCGGCAG
GATGCTCTGCGGCGGATGTGTGGCTGCTCAGAAACGATGCCACTCCCTCTACCACAAGCGCTCGCCCC
CTGCCAAAGAGTCGCGCTCTCCAAGTGCCAAAGCTGCGGGCTGTCTGCAGCTCCTCCCTCTGCCAGCG
CTGTGACAGCTGCTCACCTGTCTCCAGCTTCCAAGCCAGCGCCTTCCCAGCAAGGCCTCGACTCAT
GACAGCTGGCCACGGGGCATCTCTGCGGGAGAAGTACCCAGGCCAGACTCAGGGCCTCGACCGCCTCC
CGCACCTTCACTCCAAATCCAAGCCCTCCACCAGGCCACTTCCCGCTGTGGCTTCTGCAACCGCCAGG
CGCCACCAACACCTGCACCCAGTGTTCAAAGTCTCATGTGACGCCTGCCTCAGCGCTTACCATTATGAC
CCCTGCTACAAAAGAGTGAGCTGCACAAGTTCATGCCCAACAACCAGCTGAACTACAAGTCCACCCAGC
TCTCCCATCTCGGTACAGATAG
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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_006038 unedited

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GATTTTGTAAATACGACTCACTATAGGGCGGCCGGAATCGGCACGAGGCTGGCCCCGG
GTACTGGTCTCAGTACCCTGCAGCCGGCCGGAGAGGCTAGAGCCCGCGGGGCCGGCTC
CGGCGGCAGCCGCGCCTCTCGCTTGCTTCCCTCGGCCGGCCGCTCCTCGGCGGCAAGTGT
AGGAGCACTCCGCTGGTCCAGGCGGCAACATGTCCATGCTTTAGTGATGTCCCTGCCTC
TAATCCAGAAGCCATGGAGGAGATAAGGTAGCCCCCTCGATCGGATGGGAAGCCCAAGT
TCAATGGATACTAAATCAAGGATGACTTATTTTCGGAAGTACGTGCAGTTCCATGAGAGC
AAAGTGGATACCACCACCAGCAGGCAGCGCCTGGCAGCGATGAGTGCCTGCGGGTGGCA
GCCTCAACCTGTCTAGCCTGCACAAGGTGGATCCCTTTTATCGATTCCGGCTGATCCAG
TTCTATGAGGTGGTGGAGAGCTCCTTGGCTCGCTCAGCTCCTTAGCCTGCGGGCTCTG
CACGGCGCCTTACGATGCTGGAGACGGTGGGCATCAACCTTTCCTCTACCCGTGGAAG
AAGGAATTCAGAAGCATCAAGACCTACACGGGCCCTTTTGTATTATGTCAAGTCGACA
TTACTGGAAGAGGACATCCGAGCCATCCTGAGCTGCATGGGCTACACACCTGAGCTGGGC
ACTGCATACAAGCTCAGAGAGCTCGTGGAGACCTCCAGGTGAANGATGGTCTCCTTTGA
GCTCTTTCTGGCCAAAGTCGAGTGTGAGCAGATGCTAGAAATCCACTCACAGTGAAGGAC
AAGGGCTACTCCGAGCTGGACATTGTGAGCGAGCGCAGAGCAGTGCANNAGGATGTGCGC
GGGCTGTCTGACCCCTGCGGCGCANNANAAAGGCCGGAGCACCTGACGNNCTCTGNTN
ACGAGTGCCTTTCANAAATCGGCACCGAGCGGC
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3' Read Nucleotide Sequence:	>OriGene 3' read for NM_006038 unedited ATGGACGCGGCCCAATCTAGGATCGAGTTTTTTTTTTTTTTTTTTTAAACAATGNGAAGA CACTTTATTATTATTATTTTAAATCATCTCTCAACATTCAACTCTTGGTAGAAATCAAA TGTAACATCTGCATTTTAAATTAGCATGTATTTAACTATCTCAATCACAGCAACCTC ATCCAGTAAGATGCACACCTGGGAGCAGGGCTGTAGTATTCGTATTCAGTCTGTGACC ACAGTGCCTCCGTGATGACAGGTACACTGGACTTCCCTCCTAGGATGTGTTAGTCATT CTGCTTTTGTCCATAGGTAAGTTACGTGGCATCACGGTTGGTTAGAAAGAGTTAGTTAC TGTAATGCTGGCGCAATCTGGAATGGAAACTAGAAACTAGAGCTCTCAGGAGTGGGC CAGGCATTGCCGATTCTGAAATGTGAAAAGGAAGAACATCAAGATGAATGCCCTGCTAG GCTGGTCTTAGTAATAAAGTTGGTTGAAATTCAGCTTAATATACACTGTACATCTACA TGTGATCTACCAGACAGATATATATATATATATATATATATATATATATATACATATA TATTAAGAGAGGCCCTAGAAGATTTGGAAAACCTTAAATCACTCAACTGAGTTGGAA GAACATCACCAAAATTCAGTGGCCTCAGGATTCAGCCAGACTTAACTTGCTCAAGAGC TGAATAACTTTTCCAGAAAAGCCCACTGCCTATAAACTCCTAACATTGTGTACATCA CACACAGTAATGGCTAAATAAGGTAGTCCACAGGAGCGGCTTCATTTTCAACTCTTGGC CCCTCTCGTTCTGTCCCCACACGAAATCCAGCGTTGCCATTACAGCAAAATTGAGGG CCCCCTAGTCGGCAACCTTAGCCTACTTGACACTTGAGGGCCGCCCTTTGGGGGCCAGC CGACCCGCCCACTTTAGCAN
Restriction Sites:	NotI-NotI
ACCN:	NM_006038
Insert Size:	4200 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:	<u>NM_006038.2</u> , <u>NP_006029.1</u>
RefSeq Size:	4058 bp
RefSeq ORF:	1563 bp
Locus ID:	9825
UniProt ID:	<u>Q9UM82</u>
Cytogenetics:	20q13.13

Gene Summary:

Bridging factor that mediates the recruitment of CYLD to the LUBAC complex, thereby regulating TNF-alpha-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-alpha-induced necroptosis by promoting 'Met-1'-linked deubiquitination of RIPK1 by CYLD (By similarity).[UniProtKB/Swiss-Prot Function]

Transcript Variant: This variant (1) and variant 2 encode the same protein.