

Product datasheet for **MG208260**

Spata2 (BC034597) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Spata2 (BC034597) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Spata2
Synonyms:	MGC38980, mKIAA0757
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>MG208260 representing BC034597
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGC**C

ATGGATACGAAGTACAAGGATGACTTATTCGGAAGTACGTGCAGTTCCATGAGGGCAAAGTGGACACCA
 CCCCCGCAACCAAGCAGCCTGGCAGCGATGAGTACCTGCCGTGGCAGCTGCCACCTGCTCAGCCTGCA
 CAAGGTGGACCCCTTATATCGATTTTCGGCTGATCCAGTTTATGAGGTGGTGGAGAGCTCCCTCCGCTCG
 CTGAGCAGCTCCAGCCTGAGTGTCTGCACTGCGCCTTCAGCATGCTGGAGACAATGGCCATCAACCTCT
 TCCTGTTCCCTGGAAGAAGGAGTTCGCGAGCATCAAGACCTACACTGGCCCTTTTGTACTATGTCAA
 GTCCACGTTGCTGGAGAAGGACATCCGAGCCATTCTAAGGTTTCATGGGCTACGAGCCTGAGTTGGGACT
 GTGTACAACTCAAAGAGCTTGTGGAGTCCCTCCAGGTGAAGATGGTCTCCTTTGAGCTCTTCTGGCCA
 AGGTGAGTGTGAGCAGATGCTGGGCATCCACTCGCAGGTGAAGGACAAGGGCTACTCAGAGCTGGACGT
 GGTGGCTGAGCGCAAGGGCAGCAGGAGGATGCGCGCGGTGCTCAGATGCTCTGCGGAGCGGGCTGAG
 AGTCGGGAGCACCTGACCACTTCCATGGCTCGTGTGGCACTCCAGAAATCAGCCAGTGAGCGAGCAGCCA
 AGGACTACTACAAGCCCCGGGTGACCAACCTCCAGGTCTGTGGATGCCACGACGCTACTGGGAGAG
 CAGGAAGCCCCCTTCAAAGGCCTCACTGAGTCTGCGCAAGGAGCCCTGGCCATGGATGTAGGGGAAGAC
 TTGAAGGACGAGATCATCCGCCATCCCCCTATTGCTGGCCATGTCCAGCTCCCCCATGGTAGCCCTG
 ATGACCTTTCCTCATCTCCTCCATCAATGGCCTTGGCCTTCTTCGTAGTACATACTTTTCCACTCAGGA
 TGACGTGGACCTGTATACGGATTGAGAACCCAGGGCCACCTACCGGAGGCAGGATGCTCTGCGGCCCGAT
 GTGTGGCTGGTCAAAATGATACCCACCCCATCTACCACAAGCGTTACCCCCACCAAAGAGTCTGCCC
 TCTCCAAGTGCACCAAGTGGCGCTGTCTGCACTCTCCCTCTGCCAGCGCTGTGACAGTGTGCTGGT
 CTGTCTTCGGCCTCAAGCCAGCGCTTCCCGAGCAAGGCTTCTGTACACGACAGCTTGGCCACGCGG
 GCACCTATGCGGAGAAAGTATGTGGGCCACCACTCAGGGCCTTGACCGGCTGGCACCTGTCCACTCAA
 AGCCCAAGCCCTTACCACAGCCACCTCCCGCTGTGGCTTCTGTAACCGTGCAGGTGCCACCAACACGTG
 CACCCAGTGTTCAAAAGTTTCTGTGACGCTGCCTCGGCGCCTACCACTACGACCCGTGCTGCAGAAAG
 AGTGAGCTGCACAAGTCTGCCAACAGTCAGCTGAAGTACCAAGTCCGCCCCGTCTCCAGCTCGTGT
 ACAGA

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

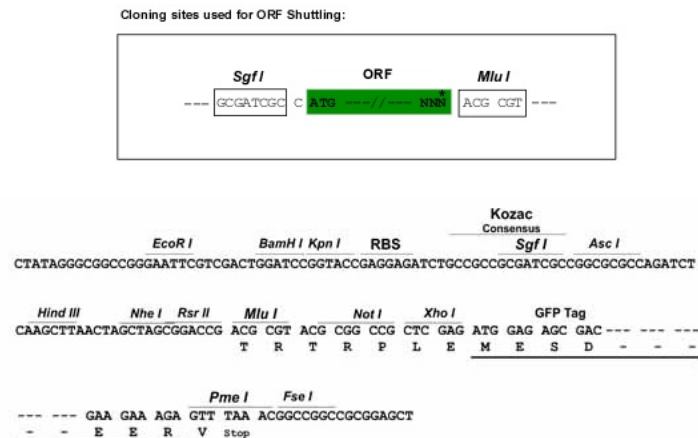
>MG208260 representing BC034597
 Red=Cloning site Green=Tags(s)

MDTKYKDDLFRKYVQFHEGKVDTPGNQPGSDEYLRVAAATLLSLHKVDPLYRFLIQFYEVVESSLRS
 LSSSSLALHCAFMSLETMAINLFLFPWKKEFRSIKTYTGPVYVYVKSTLLEKDIRAILRFMGYEPELGT
 VYKLKELVESLQVKMVSFELFLAKVECEQMLGIHSQVKDKGYSELVDVAERKGSTEDARGCSDALRRRAE
 SREHLTTSMARVALQKSASERAADYKPRVTKPSRSVDAYDSYWESRKPPSKASLSLRKEPLAMDVGED
 LKDEIIRPSPSLAMSSSPHGSPDDLSSISSINGLGLLRSTYFSTQDDVDLYTDSEPRATYRRQDALRPD
 VWLVKNDTHPIYHKRSPPTKESALSKCQNCGLSCSSSLCQRCDVLCPSASKPSAFPSKASVHDSLHAG
 APMREKYVGHQTQGLDRLAPVHSPKPKSTTATSRGFCNRAGATNTCTQCSKVSCDACLGAYHYDPCCRK
 SELHKFLPNSQLNYKSAPFSQLVYR

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: BC034597

ORF Size: 1547 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: [BC034597](#), [AAH34597](#)

RefSeq Size: 3739 bp

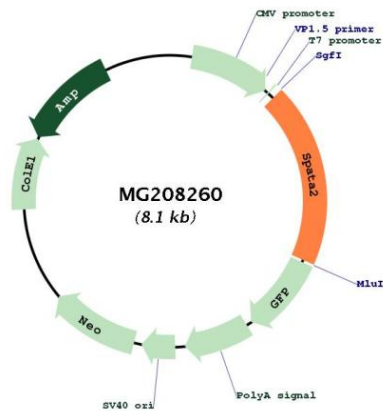
RefSeq ORF: 1547 bp

Locus ID: 263876

Cytogenetics: 2 H3

Gene Summary:

Bridging factor that mediates the recruitment of CYLD to the LUBAC complex, thereby regulating TNF-alpha-induced necroptosis (By similarity). 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) (By similarity). Required to activate the 'Met-1'- (linear) and 'Lys-63'-linked deubiquitinase activities of CYLD (PubMed:28701375). Controls the kinase activity of RIPK1 and TNF-alpha-induced necroptosis by promoting 'Met-1'-linked deubiquitination of RIPK1 by CYLD (PubMed:28701375). [UniProtKB/Swiss-Prot Function]

Product images:


Circular map for MG208260