

Product datasheet for **RG211241**

SPC24 (NM_182513) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: SPC24 (NM_182513) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: SPC24
Synonyms: SPBC24
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG211241 representing NM_182513
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCCGCTTCCGCGACATAGAGGAGGTGAGCCAGGGGCTGCTCAGCCTGCTGGGCGCCAAACCGCGCGG
 AGGCGCAGCAGCGACGGCTGCTGGGGCGCCACGAGCAGGTGGTGGAGCGGCTGCTGGAAACGCAAGACGG
 TGCCGAGAAGCAGCTGCGAGAGATCCTCACCATGGAGAAGGAAGTGGCCAGAGCCTTCTCAATGCGAAG
 GAGCAGGTGCACCAGGGAGCGTGGAGCTGCAGCAGCTGGAAGCTGGGCTTCAGGAGGCTGGGAGGAGG
 ACACCCGTCTGAAGGCCAGCCTCCTTCAGCTCACCAGAGAGCTGGAAGAGCTCAAGGAGATTGAGGCGGA
 TCTGGAGCGACAGGAGAAGGAGGTGCAGCAGGACACGACAGTACAATCCCTCGGCCGTGTACGTGGCT
 CAACCTTACCACCAAGTTAGTAAAATTGAGTGGGATTATGAGTGTGAGCCAGGGATGGTCAAAGGCATCC
 ATCATGGCCCCAGTGTGGCCAGCCATCCACCTGGACAGCAGCCAGCTCTCCAGGAAATTCATCAGCGA
 CTACCTCTGGAGTCTGGTGGACACCGAGTGG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG211241 representing NM_182513
 Red=Cloning site Green=Tags(s)

MAAFRDIEEVSQGLLSLLGANRAEAQQRLLGRHEQVVERLLETQDGAEKQLREILTMEKEVAQSLLNAK
 EQVHQGGVELQQLLEAGLQEAGEEDTRLKASLLQLTRELEELKEIEADLERQEKEVDEDTTVTIPSAVYVA
 QLYHQVSKIEWDYECEPGMVKGIHHGSPVAQPIHLDSTQLSRKFI SDYLWVSLVDTEW

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI



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Cloning Scheme:


ACCN: NM_182513

ORF Size: 591 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_182513.3](#), [NP_872319.1](#)

RefSeq Size: 2294 bp

RefSeq ORF: 594 bp

Locus ID: 147841

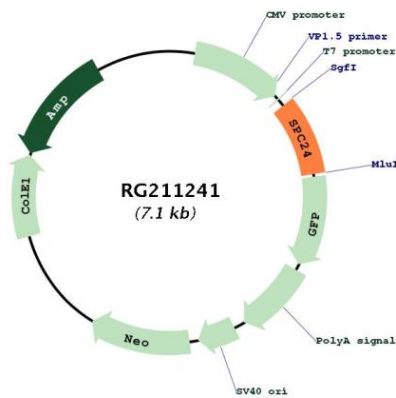
UniProt ID: [Q8NBT2](#)

Cytogenetics: 19p13.2

Protein Families: Druggable Genome

Gene Summary: Acts as a component of the essential kinetochore-associated NDC80 complex, which is required for chromosome segregation and spindle checkpoint activity (PubMed:14738735). Required for kinetochore integrity and the organization of stable microtubule binding sites in the outer plate of the kinetochore (PubMed:14738735). The NDC80 complex synergistically enhances the affinity of the SKA1 complex for microtubules and may allow the NDC80 complex to track depolymerizing microtubules (PubMed:23085020).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RG211241