

## Product datasheet for **RG228314**

### SKA3 (NM\_001166017) Human Tagged ORF Clone

#### Product data:

|                           |                                                                                |
|---------------------------|--------------------------------------------------------------------------------|
| Product Type:             | Expression Plasmids                                                            |
| Product Name:             | SKA3 (NM_001166017) Human Tagged ORF Clone                                     |
| Tag:                      | TurboGFP                                                                       |
| Symbol:                   | SKA3                                                                           |
| Synonyms:                 | C13orf3; RAMA1                                                                 |
| Mammalian Cell Selection: | Neomycin                                                                       |
| Vector:                   | pCMV6-AC-GFP (PS100010)                                                        |
| E. coli Selection:        | Ampicillin (100 ug/mL)                                                         |
| ORF Nucleotide Sequence:  | >RG228314 representing NM_001166017<br>Red=Cloning site Blue=ORF Green=Tags(s) |

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGC**C

ATGGACCCTATCCGAGCTTCTGCGGGAAGCTGCGGTCTCTGGCCAGCACGCTGGACTGCGAGACGGCCC  
 GGCTGCAGCGAGCGCTGGACGGAGAGGAAAGCGACTTTGAAGATTATCCAATGAGAATTTTATATGACCT  
 TCATTGAGAAGTTCAGACTCTAAAGGATGATGTTAATATCTTCTTGATAAAGCAAGATTGGAATAA  
 GAAGGCATTGATTCATAAAGGCAACAAAAGTACTAATGGAAAAAATTCATGGATATTATGAAAAA  
 GAGAGTATTTCCAGAAGTATGGATATAGTCCACGTGTCAAGAAAAATTCAGTACACGAGCAAGAAGCCAT  
 TAACTCTGACCCAGAGTTGTCTAATTGTGAAAAATTTTCAGAAGACTGATGTGAAAGATGATCTGTCTGAT  
 CCTCTGTGTGCAAGCAGTTGATTTCTGAGAACTCTCCACGTAGTCCACAACCTTTAGATTTTGGACTTG  
 AGCGGTACATCGTATCCCAAGTTCTACCAAAACCTCCACAGGCAGTGAACAACTATAAGGAAGAGCCCGT  
 AATTGTAACCCACCTACCAACAATCACTAGTAAAGTACTAAAACTCCAAATGTGCACTAAAAATG  
 GATGATTTTGAGTGTGTAACCTCTAAATTAGAACAATTTGGTATCTCTGAATATACTATGTGTTAAATG  
 AAGATTACACAATGGGACTTAAAAATGCGAGGAATAATAAAAGTGAGGAGGCCATAGATACAGAATCCAG  
 GCTCAATGATAATGTTTTGCCACTCCCAGCCCCATCATCCAGCAGTTGGAAAAAAGTGATGCCGAATAT  
 ACCAAGTCTCCTTTGGTACCTACATTCTGTACTCCTGGTTTGAATTTCCATCTACAAAGAACAGCATAG  
 CTTTGGTATCCACAAATTACCCATTATCAAAAACAAATAGTTTCATCAAAATGATTTGGAAGTTGAAGATCG  
 TACTTCGTTGGTTTAAATTCAGACACATGCTTTGAGAATTTAACAGATCCCTCTTCACCTACGATTTCT  
 TCTTATGAGAATCTGCTCAGAACACCTACACCTCCGGAAGTAACTAAAATTCAGAAGATATTCTCCAGA  
 AATTCCAGTGGATCTATCCAACACAGAACTGAACAAAATGAGA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG228314 representing NM\_001166017  
 Red=Cloning site Green=Tags(s)

MDPIRSFCGKLRLSLASTLDCETARLQRLDGEESDFEDYPMRILYDLHSEVQTLKDDVNILLDKARLENQ  
 EGIDFIKATKVLMEKNSMDIMKIREYFQKYGYSPRVKKNVHEQEAINSDPELSNCENFQKTDVKDDLSD  
 PPVASSCISEKSPRSPQLSDFGLERYIVSQVLPNPPQAVNNYKEEPIVTPPTKQSLVKVLKTPKCALKM  
 DDFECVTPKLEHFGISEYTMCLNEDYTMGLKNARNNKSEEAIDTESRLNDNVFATPSPIIQLEKSDAEY  
 TNSPLVPTFTCTPLKIPSTKNISIALVSTNYPLSKTNSSSNDLEVEDRTSLVLSNDTCFENLTDPSSTIS  
 SYENLLRTPPTPEVTKIPEDILQKFQWIYPTQKLNMKR

TRTRPLE – GFP Tag – V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_001166017

**ORF Size:** 1164 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\\_001166017.2](#)

**RefSeq Size:** 2808 bp

**RefSeq ORF:** 1167 bp

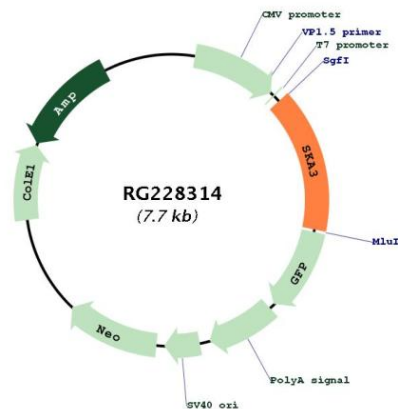
**Locus ID:** 221150

**UniProt ID:** [Q8IX90](#)

**Cytogenetics:** 13q12.11

**Gene Summary:** This gene encodes a component of the spindle and kinetochore-associated protein complex that regulates microtubule attachment to the kinetochores during mitosis. The encoded protein localizes to the outer kinetochore and may be required for normal chromosome segregation and cell division. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Oct 2009]

## Product images:



Circular map for RG228314