

Product datasheet for **RG205575**

EID3 (NM_001008394) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	EID3 (NM_001008394) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	EID3
Synonyms:	NS4EB; NSE4B; NSMCE4B
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG205575 representing NM_001008394 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAAGATGGATGTGTCAGTGAGGGCCGCGGGCTGCTCCGACGACCTCAGCTCTGGGGAGGCCGACGTAG
ACCCAAAGCTCCTGGAGCTCACCGCTGACGAGGAGAAGTGCCGCAGCATCCGCAGGCAGTACCGGCAGCT
CATGTACTGCGTGCGGCAGAACCGGGAGGACATCGTGAGCTCGGCGAACAACTCCTTAACCGAGGCTCTG
GAGGAAGCCAACGTCCTCTTTGATGGCGTGAGCCGAACCAGAGAAGCAGCCCTCGACGCCGGTTTCTTG
TTATGGCTTCTGATTTGGGTAAGAAAAGGCAAAGCAGTTAAACTCAGATATGAACCTTTAATCAGTT
AGCATTTTGTGACTTTCTGTTTCTGTTCTGTTCTGAATTGGATGGAAGGCGATCCTGACAAGTTGAGT
GATTGTGATGATAGCATAGCTCTTTCTTCTGGAAGGCAATAGAAAAGGAAGCAACATCCTGGATGGTAA
AAGCTGAGACATTCATTTTGTGTTTTCATTCAAGCTAGAACGTTCTGCACCAAAGCCCGACTTGA
ACACCAGAAAAAGTTTCGAAGATGGAAGAAAATGGCAACATGCCTACAAAGTTGCAGAAGTTGGACCTG
AGTAGTTATCCAGAAGCGACAGAAAAAACGTAGAAAGGATTTGGGATTGTTGCAAACCTACTTTTCGAA
AGTATCCTGATACTCCTGTGCTATTTTGAGTTTGTGATTGATCCAACTCTTTTTCTCGTACTGTGGA
GAATATATTTTATGTTTCTTTTATTGTAAGAGATGGTTTTGCAAGAATAAGGCTTGATGAAGACAGGCTG
CCAATATTAGCCGATGAATGTTAACCAAATGGGTGAGGAAATGATTCCAGTTGCCATGGCAGGAAAC
AGGGATTATATCTTTGACTTTACAGGAGTGAAAAACATTGTGGCAGCTTTTGAATTTCTGAGGCTAT
GATTACATACTCCTCATA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG205575 representing NM_001008394
 Red=Cloning site Green=Tags(s)

MKMDVSVRAAGCSDDLSSGEADVDPKLELTADEEKCRSIRRQYRQLMYCVRQNREDIVSSANNSLTEAL
 EEANVLFDGVSRTREALDARFLVMASDLGKEKAKQLNSDMNFFNQLAFCDFLFLVGLNWMEGDPDKLS
 DCDDSIASFWKAIEKEATSWMVKAETFHFVFGSFKLERSAPKPRLEHQKVKRMEENGMPTKLQKLDL
 SSYPEATEKNVERILGLLQTYFRKYPDTPVSYFEFVIDPNSFSRTVENIFYVSFIVRDGFARIRLDEDRL
 PILEPMNVNQMGEGNDSSCHGRKQGVISLTLQEWKNIVAAFEISEAMITYSSY

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001008394

ORF Size: 999 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_001008394.3](#)

RefSeq Size: 1447 bp

RefSeq ORF: 1002 bp

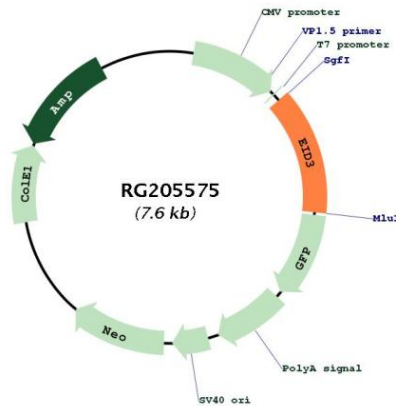
Locus ID: 493861

UniProt ID: [Q8N140](#)

Cytogenetics: 12q23.3

Gene Summary: Tissue-specific component of the SMC5-SMC6 complex, a complex involved in repair of DNA double-strand breaks by homologous recombination. The complex may promote sister chromatid homologous recombination by recruiting the SMC1-SMC3 cohesin complex to double-strand breaks. The complex is required for telomere maintenance via recombination and mediates sumoylation of shelterin complex (telosome) components.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RG205575