

## Product datasheet for **RG206213**

### SEPTIN4 (NM\_001038704) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	SEPTIN4 (NM_001038704) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	SEPTIN4
Synonyms:	ARTS; BRADEION; C17orf47; CE5B3; H5; hCDCREL-2; hucep-7; MART; PNU TL2; SEP4; SEPT4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG206213 representing NM\_001038704  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGGTCAAGACAATAAACCTGGGGCCAAGGTAGCGGTTTCAGCACAGAGAGGGTCTGAGGTTACTACTA  
 ACACATCCCCTCAGCAGGGACATGGGTACGTTCTTGCCTCAAGCCATCGAAGTGCTGCAGTCTCCCTGAA  
 CCCTTCCACCGAAGATCAGAAGCTGCACATCCCACCACTCCCCATTCGGCATCAGACTACCCTCGATCT  
 GTCTCCCTCCAGTCAGGACCTGGACACTATGCAGTACCCACTCCTCGGGAAACCGAGACTGGACCAAGAA  
 CAGAATCATCCCGCCATTCTCTCCCCATCTAAAGAGCCAGAAGACTCAGACACTGGCTTCCCATGCTTC  
 AAGCAGACAATGGAAAGTTAGTCCACCCAGAGAGGAAGCAGCACGAAGAGGCAGTGAGAGCAAGTCAGGG  
 CGCGAGGTCGGCCATCATGCTTCATCAATCCCAGATGCCAAATCTACTCATCAGTTGAGTTTTCAAGACC  
 AGAAGAATAACTTACAATCACAATCTTAGAAGATGACCCACCATCCAAGTCCAGAACCCCAAGGAGT  
 CAGAGTCCCGTAGGATTTTGTCTTACCCAAAGGATGAAGCAGTACAACTGAGCCCATCCAAAGAATT  
 ACGACTACTAGTGAGATCAGATCTCAAGGAGTCCCTCTCTCCTAGAGCACGGAAGCAGCTGTGTCTCTG  
 CAGACTATCAGACAGCCAGAGAAGGTCCTGTAGAAGAATCAGAAACAGGTCCTTACGGTCCAATTCC  
 TTCAAACCCAAAGGCCTTGATAGGAATATGAACCTGGACTCATTGCTCAAACCTCTGTGCTTAAAGAT  
 TCTGATGGTGTACACCGAGTTTCTGCACGGGTAGACCCTGAGTCTTTCATAAGTATTCTGCCTATCCTG  
 AAACCAAGCCCTCCGCAAAGGTCTTAGTATCATCACAGGTGGAGTCCAACGTGAGGACCCCAATCCGAGG  
 AAACAGCGAGGTTGGCCGAGGGTCACCATCTCCCAGGGTACAGTCAAGTAGAGCCAATCACCATGTG  
 ACAGTTCATCAGTGTCTGAGGGCTCCCAAGTCAATCCATGTTGTTACTCCAGAGCCCATCTATAAAC  
 AGCAAAACCCAAAACCCAGAAATTACTTACATGTCCCAAGACCTACACCCAGGTATCCAGAACTCTC  
 GCAAAAGCCCTCCATCCATGCAGAAGTGAAGTACCCCTAGGCCCTTGCCTCCTCGGTCCCTTACCTAGG  
 TACGGACCTGACTCCTCATGGTGGCCCTTGTGTAATCCTGAAGTTGAAACACCCCAAGCCAGCTGACAA  
 CACCGGATTTTGAGCCTAAGTGCTCTCCTTCCCTAGATCTTTTATTGTCCGGTTTTAAAATAGACTCTAG  
 CCCTTTCTGTGAGGATCTGAAGTCCAGAGAGAGAAGGCAAGCCTATCACCACCATCACCACCAAAGGAG  
 TTTCCAAGTTGGGCACCACTGAGTGAAGTGCCACAGACCCCAAGCACACCTGCAAAACAACCCATTCAA  
 GGTTTACTGCTTCTCCTGGATGTCTCTGAGGAAATGTACAATCGTGTCTGTTGGTAAAAGGTCT  
 GTGCTTTTCCCTCTATGGGCCACTGTGGGAGCTTGGGGATGGGAGGACAGGTGAGGAGTGGCATCTA  
 TGTATCTACAGAGCTGGGTCGTTAGGAGA

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:**

>RG206213 representing NM\_001038704  
 Red=Cloning site Green=Tags(s)

MVKTNKPGAKVAVSAQRGSEVTTNTSPQQGHGYVLASSHRSAAVSLNPSHRREAAHPTTPHSASDYPRS  
 VSLQSGPGHYAVPTPRGTETGPRTESSRHSSPHLKSQKTQTLASHASSRQWKVSPPREEAARRGSESKSG  
 REVGHASSIPDAKSTHQLSFQDQKNNLQSQILEDDPPSKVQNPQGVVRVPRRILSYPKDEAVQTEPIQRI  
 TTTSEIRSPRPSLLEHGSSCVSADYQTAQRRVPVEESETGYPGPIPSKPKALYRNMNLDLKLKSVLKD  
 SDGVHRVSARVDPELHKYSAYPETKPSAKVLVSSQVESNVRTPIRGNSEVGRRTISPGVQSVEPTHV  
 TVPSVSEGHKSSMFVTPEPIYKQQTQKPEITYMSQGPTRYPELSQKPSIAHELELTPRPLPPRSLPR  
 YGPDSSWWPLLNPEVETPQSQLTTPDFEPKCSPSLDLLLSGFKIDSSPFCEDLKFQREKASLSPSPSPPKE  
 FPSWAPLSEVPQTPKHTCKQPIQRFTAFFLDVSEEMYNRVIWWLKGKLCFSLLLWAHCGSLGDGRTGEEWHL  
 CIYRAGSFRR

**TRTRPLE** - GFP Tag - V

**Restriction Sites:**

SgfI-MluI



<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_001038704.2</a> , <a href="#">NP_001033793.2</a>
<b>RefSeq Size:</b>	2077 bp
<b>RefSeq ORF:</b>	1713 bp
<b>Locus ID:</b>	5414
<b>UniProt ID:</b>	<a href="#">O43236</a>
<b>Cytogenetics:</b>	17q22
<b>Gene Summary:</b>	This gene is a member of the septin family of nucleotide binding proteins, originally described in yeast as cell division cycle regulatory proteins. Septins are highly conserved in yeast, Drosophila, and mouse, and appear to regulate cytoskeletal organization. Disruption of septin function disturbs cytokinesis and results in large multinucleate or polyploid cells. This gene is highly expressed in brain and heart. Alternatively spliced transcript variants encoding different isoforms have been described for this gene. One of the isoforms (known as ARTS) is distinct; it is localized to the mitochondria, and has a role in apoptosis and cancer. [provided by RefSeq, Nov 2010]