

## Product datasheet for **RG206209**

### **KIAA1712 (CEP44) (NM\_001040157) Human Tagged ORF Clone**

#### Product data:

Product Type:	Expression Plasmids
Product Name:	KIAA1712 (CEP44) (NM_001040157) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	CEP44
Synonyms:	KIAA1712; PS1TP3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG206209 representing NM_001040157 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCAACAGGTGACTTAAAAAGAAGCTTACGGAACTAGAACAGGTGCTCCGCTTGCTAAATTATCCTG  
AAGAGGTGGACTGTGTAGGTTTGATAAAGGGAGACCCAGCAGCATCTTTGCCCATCATCAGCTATTCTTT  
TACCTCACTCACCTTATGTAACAGAACTTATAATGGAATCCAATGTAGAGCTCATAGCAAAAAATGAC  
TTGCGCTTATAGATGCTGTCTATAAGCTTCTTCGTGATCAATTTAATTATAACCAATTTTGACAAAA  
AGCAGTTTATCCAATGTGGGTTTGCAGAATGGAATCCAAATGTTTGTGATATTTGAATTGTGTGAT  
GAAAAAGCACAAGGAATTAAGCAGTCTTCAGAAGATCCATCACAAAGAAAGAAATCAGTTCTGGT  
AAGTCAGAACCTCCTTTGGGCAATGAGAAAATATCTGCAGAGGCTGTTGGCGTTGATATCAGTGGCAGGT  
TTATGACCTCAGGAAAGAAGAAAGCTGTGGTGATTTCGTCACCTGTATAATGAAGATAATGTTGACATTT  
TGAGGATACATTAAGTCCAATAACAGATGTTAATGAAGCAGTTGATGTGTCTGACTTAAATGCTACTGAA  
ATAAAGATGCCTGAAGTAAAGGTTCTGAAATCAAGGCTGAGCAACAGGATGTAATGTTAATCCTGAGA  
TACTGCACTACAACTATGCTTGCTGAATGCCAAGAAAATCTTAAGAACTGACTTCGATAGAGAAAAG  
GTTAGACTGTTTGAACAAAAATGAAAGGAAAAGTGTGGTAGATGAAAACACCTGGACTAATCTTCTT  
AGTCGTGCTACTTCTTGAACAGAAAATGCTTTTGTCTAAAAAGAAATGATGAATTTATAGAGTTAATG  
AAGTTAGTGAAGACTACGCTTCTTGATAGTACATGGACCTTCTGAATCCTCACAGAAAAAGCGAAGTGA  
GAGGCCAGCAAGTATTCCTCTGCTCTGGCTATAGTACAGCATCATCAGATTCAACTCCAGAGCCTCT  
ACTGTTAATTAAGTGTGGTTTGAATGAGATTTTCAGAGGAAACAACAATCCAGAAAATGAAAGGATGAAAA  
AAATGTTTGAAGAACTGCAGAGTTACTGAAATGTCCAAATCACTACTTG

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG206209 representing NM\_001040157  
Red=Cloning site Green=Tags(s)

MATGDLKRSRLRNLEQVLRLLNYPPEEVDVGLIKGDPAASLP IISYSFTSYSPYVTE LIMESNVELIAKND  
 LRFIDAVYKLLRDQFNYPILTKKQFIQCGFAEWKIQIVCDILNCVMKKHKELSSLQKIPSQQRKKISSG  
 KSEPLGNEKISAEAVGVDISGRFMTSGKKKAVVIRHLYNEDNVDISEDLSPIITDVNEAVDVS DLNATE  
 IKMPEVKVPEIKAEQQDVNVNPEITALQTMLAECQENLKKLTSIEKRLDCLEQKMKGKVMVDENTWTNLL  
 SRVTLLETMLLSKKNDEFIEFNEVSEDYASCSMDLLNPHRKSEVERPASIP LSSGYSTASSDSTPRAS  
 TVNYCGLNEISEETTIQKMERMKMFEETAELLKCPNHYL

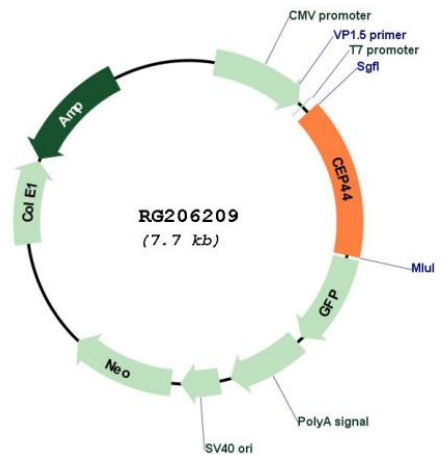
TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_001040157

<b>ORF Size:</b>	1170 bp
<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_001040157.3</a>
<b>RefSeq Size:</b>	4503 bp
<b>RefSeq ORF:</b>	1173 bp
<b>Locus ID:</b>	80817
<b>UniProt ID:</b>	<a href="#">Q9C0F1</a>
<b>Cytogenetics:</b>	4q34.1
<b>Gene Summary:</b>	Centriole-enriched microtubule-binding protein involved in centriole biogenesis. In collaboration with CEP295 and POC1B, is required for the centriole-to-centrosome conversion by ensuring the formation of bona fide centriole wall (PubMed:32060285). Functions as a linker component that maintains centrosome cohesion. Associates with CROCC and regulates its stability and localization to the centrosome (PubMed:31974111). [UniProtKB/Swiss-Prot Function]