

Product datasheet for **RG227906**

KIAA1712 (CEP44) (NM_001145314) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	KIAA1712 (CEP44) (NM_001145314) 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:	>RG227906 representing NM_001145314 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCAACAGGTGACTTAAAAAGAAGCTTACGGAACCTAGAACAGGTGCTCCGCTTGCTAAATTATCCTG
AAGAGGTGGACTGTGTAGGTTTGATAAAGGGAGACCCAGCAGCATCTTGCCCATCATCAGCTATTCTTT
TACCTCACTCACCTTATGTAACAGAACTTATAATGGAATCCAATGTAGAGCTCATAGCAAAAAATGAC
TTGCGCTTATAGATGCTGTCTATAAGCTTCTTCGTGATCAATTAATTATAAACCAATTTTGACAAAA
AGCAGTTTATCCAATGTGGGTTTGCAGAATGGAATCCAAATGTTTGTGATATTTGAATTGTGTGAT
GAAAAAGCACAAGGAATTAAGCAGTCTTCAGAAGATCCATCACAAACAAAGAAAGAAAATCAGTTCTGGT
AAGTCAGAACCTCCTTTGGGCAATGAGAAAATATCTGCAGAGGCTGTTGGCGTTGATATCAGTGGCAGGT
TTATGACCTCAGGAAAGAAGAAAGCTGTGGTGATTTCGTCACCTGTATAATGAAGATAATGTTGACATTT
TGAGGATACATTAAGTCCAATAACAGATGTTAATGAAGCAGTTGATGTGTCTGACTTAAATGCTACTGAA
ATAAAGATGCCTGAAGTAAAGTTTCTGAAATCAAGGCTGAGCAACAGGATGTAATGTTAATCCTGAGA
TTACTGCACTACAACTATGCTTGCTGAATGCCAAGAAAATCTTAAGAACTGACTTCGATAGAGAAAAG
GTTAGACTGTTTGAACAAAAAATGAAAGGAAAAGTGATGGTAGATGAAAACACCTGGACTAATCTTCTT
AGTCGTGTCACCTTCTTGAACAGAAAATGCTTTTGTCTAAAAAGAAATGATGAATTTATAGAGTTAATG
AAGTTAGTGAAGACTACGCTTCTTGATAGTACATGGACCTTCTGAATCCTCACAGAAAAAGCGAAGTGA
GAGGCCAGCAAGTATTCCTCTGCTCTGGCTATAGTACAGCATCATCAGATTCAACTCCCAGAGCCTCT
ACTGTTAATTAAGTGTGGTTTGAATGAGATTTTCCAGAGAATTTTCTGCATGGAGTGCTACATCCTCTTGT
CCAGTCTCAGCTGGCTGCTCCGTGGCATACTTCATACCTTTTCATCACAGAGCTTTGCTTGGCCTCTCTC
CTGTGTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG227906 representing NM_001145314
 Red=Cloning site Green=Tags(s)

MATGDLKRSRLRNLEQVLRLLNYPEEVDCVGLIKGDPAASLPIISYSFTSYSPYVTELMESNVELIAKND
 LRFIDAVYKLLRDQFNYPILTKKQFIQCGFAEWKIQIVCDILNCVMKKHKELSSLQKIPSQQRKKISSG
 KSEPPLGNEKISAEAVGVDISGRFMTSGKKKAVVIRHLYNEDNVDISEDLSPIITDVNEAVDVSIDLNATE
 IKMPEVKVPEIKAEQQDVNVNPEITALQTMLAECQENLKKLTSIEKRLDCLQKMKMGKVMVDENTWTNLL
 SRVTLLETMLLSKKNDEFIEFNEVSEDYASCSDMDLLNPHRKSEVERPASIPLSSGYSTASSDSTPRAS
 TVNYCGLNEISENFPAWSATSSCSSLWLLLRGHTSYLSSQSFAPWPLSCV

TRTRPLE - GFP Tag - V

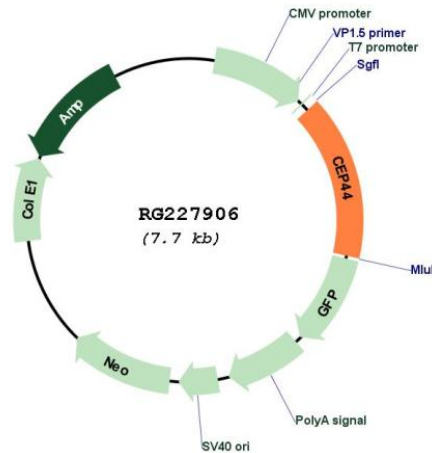
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN:

NM_001145314

ORF Size:	1197 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:	<ol style="list-style-type: none">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_001145314.1 , NP_001138786.1
RefSeq Size:	3290 bp
RefSeq ORF:	1200 bp
Locus ID:	80817
UniProt ID:	Q9C0F1
Cytogenetics:	4q34.1
Gene Summary:	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]