

Product datasheet for **SC304872**

CWC22 (NM_020943) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Tag Free
Symbol:	CWC22
Synonyms:	EIF4GL; fSAPb; NCM
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



Fully Sequenced ORF:

>SC304872 representing NM_020943.

Blue=Insert sequence Red=Cloning site Green=Tag(s)

GCTCGTTTAGTGAACCGTCAGAAATTTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGAAAAGTAGTGTGGCACAGATAAAACCTTCTTCTGGTCATGACAGAAGGGAAACCTTAATTCATAT
CAGAGGAACCTCTCCAGAAGACAGATATGAAGAACAAGAACGATCCCCCGGGATAGAGATTACTTT
GATTACAGCAGATCAGACTATGAGCATTCAAGAAGAGGACGTTCTTATGATAGTAGCATGGAGTCACGA
AACAGGGACCGAGAAAAACGCAGAGAAAGAGAAAGAGATACGGATCGGAAAAGGTCTCGGAAATCCCCA
TCTCCTGGGAGGAGAAACCCAGAAACATCAGTAACCTCAGAGTTCTCTGCTCAGGATGAACCTGCTACA
AAGAAAAAGAAAGATGAGCTGGATCCTCTTCTTACTCGCACTGGTGGAGCATATATCCCCCTGCAAG
CTCAGGATGATGCAGGAACAGATTACAGATAAAAACAGCTTAGCATACCAGAGGATGAGTTGGGAGGCC
CTGAAGAAGTCAATTAATGGCCTTATCAACAAAGTCAACATTTCCAACATAAGTATTATTATTCAAGAG
CTTCTTCAAGAAATATAGTTAGAGGAAGAGGACTGCTGTCCAGGTCTGTTTTGCAAGCACAGAGTGCT
TCTCCAATCTTACCCATGTTTATGCAGCATTAGTGGAATTAACAACCAAAATTTCCACAAATTTGGA
GAATTAATCCTCAAAAGGTTAATTCTTAATTTTCGAAAAGGCTATCGAAGAAATGACAAGCAACTTTGC
CTGACTGCTTCAAAATTTGTGGCGCATCTTATTAACCAAAATGTGGCACACGAAGTATTATGCTTAGAG
ATGCTCACTTTGCTCCTGGAAAGACCAACAGATGATAGCGTTGAAGTAGCTATTGGTTTTCTTAAGGAA
TGTGGCCTCAAATTAACACAAGTGTACCAAGAGGAATCAATGCTATATTTGAACGCTTCGAAACATT
CTGCATGAGTCTGAAATTGACAAAAGAGTTCAATATATGATTGAAGTGATGTTTGTGTACGGAAGAT
GGATTCAAGGACCAACCCATTATCCTAGAAGGTCTTGATTTGGTGAAGAAGATGATCAATTCACATCAT
ATGCTCCCTCTGGAGGATGACTATAATCCAGAAGATGTTCTTAATGTTTTCAAGATGGATCCTAATTTT
ATGGAGAATGAAGAGAAGTACAAAGCTATTAAGAAAGAAATCTTGATGAGGGAGATACTGACTCGAAC
ACAGACCAGGATGCTGGGAGTAGTGAAGAGGACGAGGAAGAAGAAGAGGAAGAGGGAGAAGAGATGAA
GAAGGACAAAAAGTAACTATTCATGACAAAACGAAATTAACCTGGTCTCATTTTCGTGCTACAATTTAT
CTTGCTATTTCAGTCAAGTTTAGATTTTGAAGATGTGCTCACAAATTTGCTGAAAATGGAGTTTCTGAA
AGCCAAACAAAAGAACTCTGCAACATGATACTTGATTGCTGTGCCCCAACAGAGGACATACGAAAAATTT
TTTGGCTTATTAGCTGGGCGATTTTGCATGCTAAAGAAAGAGTACATGGAATCCTTTGAAGGTATATTC
AAAGAACAGTATGATACCATCCATCGCTTGGAAACAAACAAGTTGCGAAATGTTGCTAAGATGTTTGT
CACCTTTTATACACTGATTCACTTCCATGGAGTGTCTTGATGTATAAACTGAGTGAAGAAACCACT
ACATCATCCAGTAGAATTTTGTCAAATATTTTCCAGGAACTGTGTGAATACATGGGTCTTCTTAAA
CTTAATGCAAGATTAAAGGATGAACTCTGCAGCCATTCTTTGAAGGATTATTACCCCGAGATAATCCA
AGAAACACTCGGTTTGCCATCAACTTCTTACTTCTATAGGTCTTGGAGGTTTAACGGATGAAGTCCG
GAGCATCTCAAAAATACACCAAGGTCAATGTGGCGCAGAAACAGATGTTGAGCAAAAATAATCCTCC
CCATCTCTTCTCTTCCAGCTCCTCTCTTCCAGTCTGACTCATCCGACTCTGATTCTGACAGCAGT
GATAGCAGTTTCAAGTCTTCCAGTGAAGAGAGCGACTTTCATCCATCAGTAGTCATAGCTCTGCCTCA
GCTAATGATGTAAGAAAGAAGGACATGGGAAGACCAGAAAGTAAAGAGGTAGATAAATTGATCAGAAAC
CAGCAAAACAAATGATAGGAAACAAAAGAAAGACAGAAGACACGGGCACCAGGAAACAAGGACTGAG
AGAGAAAGAAGGTGAGAAAAACACAGAGATCAAAATTCAGTGTTTCAAAATGGAGAGATCCTATAACA
AAGTACACATCAGACAAAGATGTTCTTCTGAACGAAATAACTACAGTAGAGTTGCGAATGACAGAGAC
CAAGAAATGCATATAGATTTGGAAATAAGCATGGTGATCCCAAAAAGAGAGAGGAGAGAGAAGAAAT
TCTTTTTCTGAAAATGAGAAGCATACACACCGAATTAAGACAGTGAATTTTCAAGAGAAAGATAGA
TCAAAGTCAAAGGAAATGAATAGAAAGCACTCAGGCTCAAGAAGTGATGAAGATAGATATCAAAATGGT
GCCGAGAGACGATGGGAAAAATCTAGCAGATACTCTGAACAAATCCAGAGAAATCAAGAAAAATCAGGAC
CGGCGAAGAGAAAAGTCTCCAGCAAAACAAAAATAA
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGCGCCGCG

Restriction Sites:

SgfI-MluI

ACCN:

NM_020943

Insert Size:

2727 bp

OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
OTI Annotation:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_020943.2
RefSeq Size:	3279 bp
RefSeq ORF:	2727 bp
Locus ID:	57703
UniProt ID:	Q9HCG8
Cytogenetics:	2q31.3
MW:	105.5 kDa
Gene Summary:	Required for pre-mRNA splicing as component of the spliceosome (PubMed:12226669, PubMed:11991638, PubMed:22961380, PubMed:28502770, PubMed:28076346, PubMed:29360106, PubMed:29301961). Promotes exon-junction complex (EJC) assembly (PubMed:22959432, PubMed:22961380). Hinders EIF4A3 from non-specifically binding RNA and escorts it to the splicing machinery to promote EJC assembly on mature mRNAs. Through its role in EJC assembly, required for nonsense-mediated mRNA decay.[UniProtKB/Swiss-Prot Function]