

Product datasheet for **MC222539**

Cwc22 (NM_030560) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Tag Free
Symbol:	Cwc22
Synonyms:	AA684037; AI173004; AL022752; B230213M24; mKIAA1604
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



Fully Sequenced ORF: >MC222539 representing NM_030560
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTGCACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGAAAAGTAGTGTGGCACACATGAAGTCCTCTGGTCACAACAGAAGGGAGACCCACAGTTCATACCGCC
GGAGCTCCTCCCAAGAAGACAGATACACAGAGCAAGAGCGGTCCCCCGGGATAGAGTTACTCTGATTA
CAGCCGGTCAGACTATGAGCGATCTAGAAGAGGATACTCTTACGATGACAGCATGGAATCACGAAGTAGG
GACCGAGAAAAACGAGAGAGAGAGAGAGATGCAGATCATCGGAAACGGTCCCGGAAATCGCCATCCC
CTGACAGGAGTCCAGCCGAGGCGGAGGGCAGAGTTCTCTCAGGAGGAACCGACATGGAAGAAGAAGAA
GGATGAGCTGGACCCGCTGCTCACCCGCACTGGGGGAGCGTATATCCCTCTGCGAAGCTCAGGATGATG
CAGGAGCAGATCACAGATAAAAGCAGCTTAGCATATCAGAGGATGAGCTGGGAGGCTCTGAAGAAATCCA
TCAATGGTCTCATCAACAAGGTCAACATCTCTAATAAAGCATTATTATCCAAGAGCTCCTCAAGAGAA
CATTGTGAGAGGAGAGGATTGCTGTCCAGATCTGTTCTGCAAGCCAGAGTGCCTCTCAATCTTCACT
CACGTTTATGAGCTTTGGTGGCAATAATCAACTCAAAATTCACAGATTGGAGAATTGATCCTCAAGA
GACTAATCTTAATTTTCGAAAGGCTATCGAAGGAACGATAAGCAACTTTGCCTGACTGCTTCAAAATT
TGTGGCACATCTTATTAACCAAAATGTGGCACATGAGGTTCTGTGCTGGAGATGCTCACTTGTCTACTA
GAGAGACCAACAGATGACAGTGTGAAGTAGCTATCGGCTTCTCAAAGAGTGGTCTCAAATTAACCC
AGGTGTCAACAGGGGAATTAATGCAATCTTTGAACGCCTTCGAAACATTCTACACGAGTCTGAGATCGA
CAAAAGAGTTCAGTACATGATTGAAGTGATGTTTGTGTACGGAAGGATGGATTCAAGGACCACTGTT
ATTCTGGAAGGACTTGATTTAGTGAAGAGGACGATCAGTTTACACATATGCTCCCCTTAGAGGATGACT
ACAATCCAGAAGATGTTCTTAATGTTTCAAGATGGATCCTAATTTTATGGAGAATGAAGAGAAGTACAA
GGCTATTAAAAAGAAATCCTTGACGAAGGAGACAGTGATTCAACACAGACCAAGGAGCTGGAAGTAGT
GAAGATGAGGAGGAGGAAGACGAGGAGGAGGAAGGAGAAGACGAGGAAGGAGGGCAAAAGTAATTTC
ATGACAAAACAGAAATCAACCTAGTCTCGTTTCGCCGTACAATCTATCTTGCCATTCAAGTTTAGA
TTTTGAAGAATGTGCACACAAGTTGCTGAAAATGGAGTTTGAGAGAGCCAAACAAAAGAACTCTGCAAC
ATGATACTTGATTGCTGTGCCCAACAAAGGACCTATGAAAAATTTTTTGCTTTAGTGTGGCGGTTTTT
GTATGTGAAAAAGGAATACATGGAATCATTTGAAAGTATATTCAAGGAACAGTACGACACCATCCATCG
CTTAGAGACAAACAAATTGAGAAATGTTGCTAAAATGTTTGTCTCACCTTTTATACACAGATTCATTCCG
TGGAGTGTTCTCGAATGTATAAACTGAGTGAAGAGACCACGACATCGTCTAGTCGAATTTTGTCAAGA
TCTTCTTCCAGGAAGTGTGTGAATACATGGGTCTTCTAACTGAATGCGAGGTTGAAGGATGAAACTCT
CCAGCCATTCTTTGAAGGTCTGTTACCCAGAGACAACCCACGCAATACCCGTTTGCCATCAACTCTTC
ACTTCCATAGGTCTCGGAGGATTGACGGATGAAGTGCAGAACATCTGAAAAATACGCCCAAGGTATCG
TAGCCAGAAACAGAGCTGAACAAAAGAAACAGCCCTGACATCTTCATCTTCAGAGTCTTCTCGGC
GTCTGATTCTCTGACTCAGAATCTGACAGCAGCGAGAGCAGCTCAGAGTCTCTAGTGATGCGAGCGAC
TCCTCTCTCTCTCCAGCACTCAGAGCTCTACCTCAGGTATCACGGCTCATTCAAGTAAAGGTACAAGAA
AGAAGAGACAAGGGAAGGCCAGAGGCGAAGAAGTTGATAAGTTAGCCAGGGGCCACAGGCCTTGAGCG
GAGGCGAGAAGGAGGCAGGAGGACCAAGGCACAGGAAGGGAGGACTGAGAGAGCAAGGTCTGAAAGA
CGCAGAGCTCAGAACTACGAGATGCAGACTGGAGAGATCCCTAGCAAAACACATAGACGACAGAAGCC
ATGAGAATAGTCACAGCAGAGTTGGCAATGGCCGAGAACAAAGGCTCACACAGAGAGCCAGAAGACAGGCA
TGGCGAGCCAAAGAAGCGGAGAGAGAGAAGAGATTCTTTTCTGAAAATGAGAAGCAAAAGAGCCGAAAT
CAGGACAGTGATAATGTTAGAAGAAAAGATCGCTCCAAGTCAAGGGAGAGGAGTAGAAGGCATTCTGGTC
ACAAGGGAGACGACGCCAGGTGTGAGAACAGTGCAGAGAGGCGCTGGGAAAAGCTTGGCAGACGCCCTGA
ACAGTCTAGAGAGTCAAAGAGAAGTCAGGACCGGAGGAGAGAAAAGTCTCCAACAACACAGAAATAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_030560

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).
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:	<u>NM_030560.5</u> , <u>NP_085037.2</u>
RefSeq Size:	3452 bp
RefSeq ORF:	2727 bp
Locus ID:	80744
UniProt ID:	<u>Q8C5N3</u>
Cytogenetics:	2 C3
Gene Summary:	Required for pre-mRNA splicing as component of the spliceosome. Promotes exon-junction complex (EJC) assembly. 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] Transcript Variant: This variant (1) differs in the 5' UTR and uses an alternate in-frame splice junction compared to variant 4. The resulting isoform (1) has the same N- and C-termini but is 1 aa shorter compared to isoform 4. Variants 1 and 5 both encode the same isoform (1).