

## Product datasheet for **RC216553**

### **FAM29A (HAUS6) (NM\_017645) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	FAM29A (HAUS6) (NM_017645) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	FAM29A
Synonyms:	Dgt6; FAM29A
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>RC216553 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGAGCTCGGCCTCGGTACCGCTTTCGAGAAGGAGCATCTCTGGATGTATCTGCAGGCGCTCGGCTTCG  
 AGCCAGGCCCGCAACCATTGCCTGCGGAAAGATCGTGTGCGCACACGCACCTCGGAGTGAACATGTTTGA  
 CAAGCTGAACCGTGATGCCTTTCATATAATTTCTATTTTTTTGTTTCAAGTTCTGGACCAGTCTCTCACC  
 AAAGAAGTTTTCAAATTTGTTGGCCCCATTTGACCAAAAAAGTGACACTGAATCCGAAAAATTGCT  
 GTGAATGGATAAAAAGGATTTCTGGTGAATGTGGAAGCAGCTTTCCTCAAGTTGTTGGTTCACTATTTCT  
 TTCTCCTGGTGGTCTAAGTTTATTCATCTGATGTATCATTGCAAGATTTGTTGCAATGAAATATATT  
 AAATCAAATCTAAAAATCTTCTCATCTTTGTAGAGACATTAACATAAAACCACAGGACTTGACACA  
 AATGCATTGCCAGATGCCATTTGCGACGTAGCAGATTTTACAAATTTGCAAGACAAGATTGTGTAC  
 CCAAAAAATCAGGAAAATGCACAATTATCAGTTAAGCAGTACGAAACTTGAGATCTGAATGTATAGGA  
 TTGGAAAACCAAATAAAGAAAATGGAACCTATGATGACCACAGTAATATGGAAGAAAAAATTCAAAAGG  
 TTCGGTCTTTGTGGGCTTCAGTGAATGAAACGCTCATGTTTTTGAAAAAGAGAGAGAAGTTGTTAGTTC  
 GGTCTTAGTCTTGTAAACCAATATGCTTTAGATGGAACATAATGTTGCTATTAATATTCAAAGGCTCTTA  
 CTTGACAAAATTGAGAAACAAATGTTTCAGTTGCACATAGGAAATGTTTATGAGGCTGAAAAACTGAACC  
 TCTTAACAGTTATTCAGTTATTAATGAAGTCTTGAAGGTGATGAAATATGAACGTTGTCAGGCTGATCA  
 AGCAAGATTGACGGTAGACCTTCACTACCTTAAAAAGAGACCAAAATTCAGAAGGAAAGATTATCAGAT  
 CTGAAACATATGAGGTATAGAATAAAGATGATCTCACAATAAAGACATTCTGTTGTTGAAAAGCAAG  
 GAGAATGGCATAAAAAGTGAAAGAATTTCTGGTTTGTCTCCTTTCAGTCTAATTAAGGTTGGACTCC  
 ATCTGTAGATCTTTTACCACCAATGTCTCCCCTTTCGTTTGATCCTGCCTCAGAAGAAGTGTATGCAAAG  
 AGTATTCTTTGTGAGTATCCTGCTTCACTTCCAGATGCACATAAGCAACATAACCAAGAAAATGTTGCA  
 GAGGAGACAGTGATACCTTGGGAGCGCTACATGATCTAGCCAACAGCCCTGCCTCTTTCTGTGCGAGTC  
 AGTTTCATCATCAGATAGAAACAGTGTTACAGTACTTAAAAAGGACACAAAGATGGGAACTCCCAAAGAA  
 AAAATGAAGCAATTTCTAAGAAAATACCAGAATTTGAAGTGAAATTTCTCATTATCAGATGTTGCAA  
 AGAATACAGAGAGTAGTGCATTTGGAGGGTCTTGGCCAGCTAAAAAAGTATCCATTTCAAAGAGCA  
 AGATCATCTGGTAGAAGAGGTTGCCAGAGCAGTTTATCTGATTCACCACAGCTCTCTGAAGGAAAAGAA  
 ATAAAATTAGAGGAACTAATTGACTCTCTGGGTTCTAACCCTTCTTAACAAGGAATCAGATTTCCCGTA  
 CTCAGAAAACCTTGATAACTGAAATTAGGAGCTCATGGAGAAAAGCTATTGAAATGGAAGAAAACAGAAC  
 TAAAGAACCAATTCAAATGGATGTTGAACATAGAGAAGTATTGCCAGAATCATTACCTGTGTTGCACAAT  
 CAAAGAGAATTTAGCATGGCTGATTTTCTCTTAGAAAACCACTGTATCAGATTTTGGCCAGTCTCATTTGA  
 CTGAAGAGAAAAGTTATTTAGATGCGAGTGTGTGCCTCAGAAACATGTGCTGACCAGTCACATAGATGA  
 ACCACCAACACAAAATCAGTCAGATTTGTTAAATAAGAAAAGTAATTTGCAAGCAAGATTTGGAATGTTTA  
 GCCTTCACCAAGCTTTAGAAAATAGCCGAATGGAGACATTCTCCCCTGCTGTCGGAATAGGATAGATG  
 TGATGGGTGGCAGTGAAGAGGAGTTTATGAAAAATTGGACCATTAGAAGTTTCTTGTAAACAACTTC  
 CACAAAATAAACTATGTTGTGGAATCTTTTCAGATATCAATTGGAATTAGTTCTAAGAGTTTTAAAGAT  
 AATGATTTTGGCATATTACACGAAACTCTCCCGAAGAAGTTGGTCATCTAAGTTTTAATAGTTCCAGTA  
 GTTCAGAGGCCAATTTTAACTGGAGCCAAATAGTCTATGCATGGTGGCACTCTCTAGAAGATGTTGT  
 GGGAGGGAGACAGACTACTCCAGAATCAGACTTTAATTTACAGGCTCTTTCGAGTATACGAGGCTCTG  
 AAGAAATCTTTTCCAAGAAAAGGGAAGAATCTTACCTCTCGAATTTCCAAACACCCGAAAGACACAAAC  
 CAGAATTGAGCCCTACTCCCAAAATGTACAAACAGATGATACGTTAACTTTTTGGACACCTGTGATTT  
 GCATACTGAGCATATAAGCCATCTTTACGCACGTCCATCGGTGAAAGAAAACGGTCTCTTTACCACATA  
 ATTAAGTTTTCTCAGTGAACAAAGATTGAGAACCACAATAGCATGTAGTCTTGGAGAATACTAAT  
 TAAAGGAAGAAGACATTTTGAATAAGAGCCTTGATGCAAAAAGAACCCCTCTGACTTGACAAGA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RC216553 protein sequence  
 Red=Cloning site Green=Tags(s)

MSSASVTAFEKEHLWMYLQALGFEPGPATIAACGKIVSHTHLGVMFDFKLNRFDAFHIIISYFLFQVLDQSLT  
 KEVFKFCWPPFDQKSDTEFRKHCCWEIKRISGECGSSFPQVVGSLFLSPGGPKFIHLMYHFARFVAMKYI  
 KNSKNSSHHFVETFNIPQDLHKCIARCHFARSRLQILQRQDCVTQKYQENAQLSVKQVRNLRSECIG  
 LENQIKKMEPYDDHNSMEEKIQKVRSLWASVNETLMFLEKEREVSSVLSLVNQYALDGTNVAINIPRL  
 LDKIEKQMFQLHIGNVYEAGKLNLLTVIQLLNEVLKVMKYERCQADQARLTVDLHYLEKETKFQKERLSD  
 LKHMRYRIKDDLTTIRHSVVEKQGEWHKKWKEFLGLSPFSLIKGWTPSVDLLPPMSPLSFDPASEEVYAK  
 SILCQYPASLPDAHQHNQENGRGSDTLGALHDLANSFASFLSQSVSSDRNSVTVLEKDTKMGTPKE  
 KNEAISKIPEFEVENSPLSDVAKNTESSAFGGSLPAKSDPFQKEQDHLVEEVARAVLSDSPQLSEGKE  
 IKLEELIDSLGSPFLTRNQIPRTPENLITEIRSSWRKAIEEENRTKEPIQMDVEHREVLPESLPVLHN  
 QREFSMADFLLETTVSDFGQSHL TEEKVSDCECVPQKHVLTSHIDEPTQNQSDLLNKKVICKQDLECL  
 AFTKLSRMTFSPA VGNRIDVMGGSEEEFMKILDHLEVSCNKPSTNKTMLWNSFQISIGISSKSFKD  
 NDFGILHETLPEEVGHL SFNSSSSEANFKLEPNSPMHGGTLLLEDVVGGRQTTPESDFNLQALRSRYEAL  
 KKSLSKKREESYLSNSQTPERHKPELSPTQNVQTDITLNFLLDTCDLHTEHIKPSLRTSIGERKRSLSPL  
 IKFSPVEQRLRTTIACSLGELPNLKEEDILNKSLDAKEPPSDLTR

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mk6444\\_c07.zip](https://cdn.origene.com/chromatograms/mk6444_c07.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



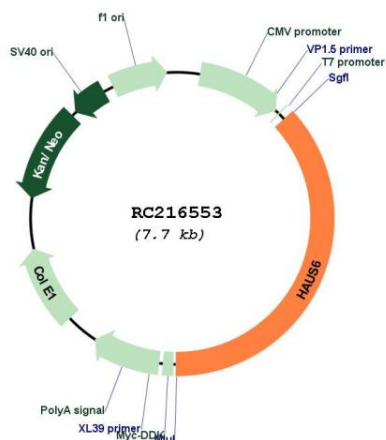
\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_017645

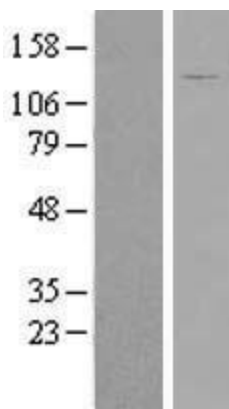
**ORF Size:** 2865 bp

<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_017645.5</a>
<b>RefSeq Size:</b>	6365 bp
<b>RefSeq ORF:</b>	2868 bp
<b>Locus ID:</b>	54801
<b>UniProt ID:</b>	<a href="#">Q7Z4H7</a>
<b>Cytogenetics:</b>	9p22.1
<b>MW:</b>	108.7 kDa
<b>Gene Summary:</b>	The protein encoded by this gene is a subunit of the augmin complex. The augmin complex plays a role in microtubule attachment to the kinetochore and central spindle formation. This protein may have a role in efficient chromosome congression and segregation by promoting microtubule-dependent microtubule amplification. Pseudogenes of this gene are located on chromosomes 7 and 20. Alternative splicing results in multiple transcript variants that encode different protein isoforms. [provided by RefSeq, Aug 2012]

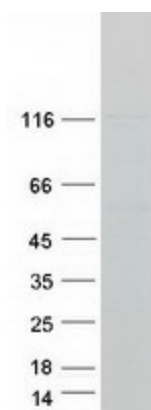
Product images:



Circular map for RC216553



Western blot validation of overexpression lysate (Cat# [LY413644]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC216553 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified HAUS6 protein (Cat# [TP316553]). The protein was produced from HEK293T cells transfected with HAUS6 cDNA clone (Cat# RC216553) using MegaTran 2.0 (Cat# [TT210002]).