

## Product datasheet for **RR208621**

### Fuca2 (NM\_001004218) Rat Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Fuca2 (NM_001004218) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Fuca2
Synonyms:	MGC93735
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



[View online »](#)

**ORF Nucleotide Sequence:**

>RR208621 representing NM\_001004218  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGCGCCTGGGGCTCCTGATGTTTCTGCCGCTACTGCTGTGGCAACCCGGTACCGGGCCGTGACAGCCC  
 TTAGCTATGACCCACGTGGGAGTCTCTGGACAGACGCCCGCTGCCAGCCTGGTTCGACCAGGCCAAGTT  
 CGGCATCTTCATCCACTGGGGAGTGTTCCTGCGCCAGCTTTGGTAGTGAATGGTTCTGGTGGTATTGG  
 CAAAAGGAAAGGAGACCCAAGTTTGTGGACTTTATGGACAATAATTATCCCCCTGGCTTTAAGTATGAAG  
 ATTTTGGAGTGTATTTACAGCCAAGTATTTAACGCAAACCAATGGGCAGATCTTCTCCAGGCCTCTGG  
 TGCCAAATATGTGGTCTTAACCTCAAACATCATGAAGGATTCACTCTGTGGGGTTCGGCCATTCTTGG  
 AATTGGAACGCGTTCGATGAGGGCCGAAGAGGGACATCGTCAAGGAGCTTGAGGTGGCTGTGAGGAACA  
 GGACTGACTTGCACCTTGGTCTGTACTATTCTCTTTTGAATGGTCCACCCACTCTTCTGGAGGATCA  
 ATCCAGCGCTCCAGAAGCAGCGGTTCCCGTTGCTAAGACGTTGCCTGAGCTCTATGAGTTGGTGACC  
 AAGTACCAGCCGAAGTTCTGTGGTTCAGACGGAGATGGGGGAGGCCAGATCACTACTGGAATAGTACTG  
 ACTTCTTGGCCTGGCTCTATAACGAAAGCCAGTTCGGGACACAGTAGTCACCAATGATCGCTGGGGAGC  
 TGGCTCTATCTGCAAACCGGTGGTTACTATACTTGCAGTGACCGTTATAATCCCGGACATCTTTGCCA  
 CACAAGTGGGAGAACTGCATGACAATAGACAAGTTCTCTGGGGCTACAGACGGGAGGCTGAAATCGGTG  
 ACTATCTTACCATTGAAGAATTGGTGAAGCAACTTGTGGAACCGGTCTCATGTGGAGGAAATCTCCTGAT  
 GAATATGGCCCCACACTAGATGGCATCATTCTGTAAATTTTGGAGGCGCTTAAGGCAATGGGAACC  
 TGGCTGAAAGTCAACGGGAAGCTATTTATGAAACACATACTTGGAGGTCTCAGAACGACACCGTCACTC  
 CTGACGTGTGGTACACATCTAAACCTGAGAAGAAATTAGTCTATGCTATTTTCTGAAATGGCCATCTC  
 TGGAAAGCTGTTTCTGGACAACCCATAGGTAGTCTGGGGGAAACAGAGGTAGAACTACTGGCCACGGA  
 CGGCCACTGACTTGGACATCTTCAAAGCCAAGCGCATTGTGGTGGAGTTGCCCGGCTAAGCGTTCATC  
 AGATGCCCTGTAATGGGGATGGACTCTGGCACTAACCAATGTCAT

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RR208621 representing NM\_001004218  
 Red=Cloning site Green=Tags(s)

MRLGLLMFLPLLLLATRYRAVTALSYDPTWESLDRRPLPAWFDQAKFGIFIHGWFVSVPSFGSEWFWWW  
 QKERRPKFVDFMDNYPGFKYEDFGVLF TAKYFNANQWADLLQASGAKYVVLTSKHHEGFTLWGSASHSW  
 NWNVDEGPKRDIVKELEVAVRNRDLHFGLYYSLEFWFHPLFLEDQSSAFQKQRFVAKTLPPELVELVT  
 KYQPEVLWSDGGGAPDHYWNSTDFLAWLYNESPVVDTVVTNDRWGAGSICKHGGYTCSDRYNPGHLLP  
 HKWENCMTIDKFSWGYRREAEIGDYLTIEELVKQLVETVSCGGNLLMNIPTLDGIIPVIFEERLRQMG  
 WLKVNGEAIYETHWRSQNDTVTPDVWYTSKPEKLVYVIFLKWPIISGKFLGQPIGSLGETEVELLGHG  
 RPLTWTSSKPSGIVVELPRLSVHQMPCKWGTALALTNVT

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

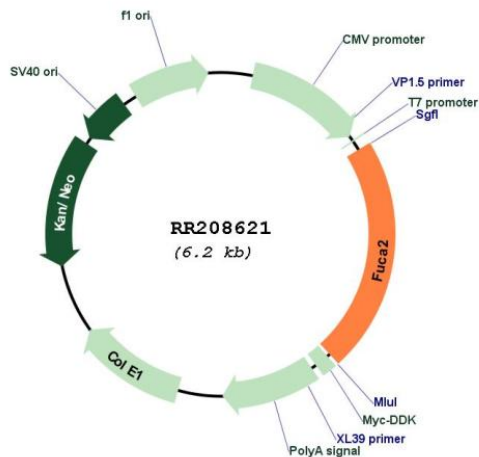
**Restriction Sites:**

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM\_001004218

ORF Size: 1377 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:**

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\\_001004218.1](#), [NP\\_001004218.1](#)

**RefSeq Size:** 1630 bp

**RefSeq ORF:** 1380 bp

**Locus ID:** 292485

**UniProt ID:** [Q6AYS4](#)

**Cytogenetics:** 1p13

**MW:** 53.3 kDa

**Gene Summary:** cytoplasm-specific alpha-L fucosidase; important for carbohydrate and glycosaminoglycan metabolism [RGD, Feb 2006]