

## Product datasheet for **RR207723**

### Fuca1 (NM\_012562) Rat Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Fuca1 (NM_012562) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Fuca1
Synonyms:	Fuca
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**ORF Nucleotide Sequence:**

>RR207723 representing NM\_012562  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGTGGGAGCTGAAAAGTGAGTGGTGGGCGGTGGGCTTCGGGCTTCTGCTGCTACTGGCAGCTTCGGCCC  
 AGGCAGGGGGCTTGGCTCCGCACCACTACACTCCGGACTGGCCGAGCTTGGACTCGCAGCACTGCCGAG  
 ATGGTTCGACGAGGCCAAGTTCGGGTTGTTCTGTCATTGGGGGTGTACTIONGGTCCCGCTGGGGCAGC  
 GAGTGGTCTGGTGGCACTGGCAGGGCGAGCAGTCGTCGGCGTACGTGCGCTTCATGAAAGAAAACCTACC  
 CGCCCGGCTTACGCTACGCCGACTTTCACCCGAGTTTACAGCGCGCTTCTTCCATCCGGAGGAGTGGGC  
 AGACCTCTCCAGGCTGCCGGGGCCAAGTATGTCGTCCTGACCGCAAAGCATCACGAAGGCTTCACAAAC  
 TGGCCAAGCGCCGTGCTTGGAACTGGAACCTGAAGGACGTGGGGCCCCACCGTGATTTGGTCGGTGGT  
 TGGGAGCAGCTGTGCGGAAGAGGAACATACGATACGGCCTTACCCTCGCTCTTTGAGTGGTCCATCC  
 ACTCTACCTACTAGATAAGAAAAATGGCCTCAAGACTCAGCATTTCGTCAGTACAAAAACAATGCCAGAG  
 CTGTACGACCTCGTGAATAGGTACAAGCCTGACCTAATCTGGTCTGATGGGGAGTGGGAGTGTCCCATT  
 CGTACTGGAACCTCACGGAGTTCCTTGGCTTGGCTCTACAATGAAAGCCCCGTCAAGGATCAGGTGGTGGT  
 GAATGACCGGTGGGGTCAGAAGTCTCCTGTCGTACGGAGGGTACTACAAGTGTGAAGACAAATACAGA  
 CCACACAGCCTGCCAGACCACAAGTGGGAGATGTGCACCAGCGTGGACAAGGCGTCTGGGGCTATCGGA  
 GAGACATGAGCATGTCTACCATCGTCGACGAAAATGAAATCATTGAGGAATTGGTTCAGACAATAAGTCT  
 GGGAGGCAACTATCTTCTCAACATCGGACCGAATAAGACGGCGTGATCGTCCCATCTTCCAGGAAAGG  
 CTCCTTGTGTTGGCAAGTGGCTGCAGATCAACGGGGAGGCCATCTATGCCTCAAACCATGGAGGGTGC  
 AGTCTGAAAAGAACAAGACAGTTGTGGTACACCACTAAAGACTCGGCTGTTTATGCCACTTTTCTGCA  
 CTGGCCAGAAGATGGAGTGGTAAACCTCCAATCTCCCAAATGACATCGGCCACAAAGATAACGATGCTA  
 GGAATGGAAGGAGAACTGCACTGGACCCAGGACCACTGGAAGGCGTCTCATCACTCTGCCCCAGTTGC  
 CACCAGGCACTTCCAGTGGAGTCTGCCTGGACTCTAAAGCTGACAAAAGTGAAC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RR207723 representing NM\_012562  
 Red=Cloning site Green=Tags(s)

MWELKSEWWAVGFGLLLLLAASAQAGGLAPHHYTPDWPSLDSRPLPRWFDEAKFGLFVHWGVYSVPAWGS  
 EWFWWWQGEQSSAYVRFMKENYPGFSYADFAPQFTARFFHPEEWADLFQAAGAKYVVLTAKHHEGFTN  
 WPSAVSWNWSKDVGPHRDLVGELGAAVRKRNIRYGLYHSLFEWFHPLYLLDKKNGLKTQHFVSTKTMPE  
 LYDLVNRYPDLIWSGWEWCPDSYWNSTEFALWLYNESPVKDQVVVNDRWGQNCSCRHGGYNCEDKYR  
 PHSLPDHKWEMCTSVDKASWGYRRDMSMSTIVDENEIEELVQTIISLGGNYLLNIGPNKDGVIPIFQER  
 LLAVGKWLQINGEAIYASKPWRVQSEKNKTVVWYTTKDSAVYATFLHWPEDEGVVNLQSPKMTSATKITML  
 GMEGELHWTQDPLEGVLITLPQLPPGTFPVESAATLKLTKVN

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

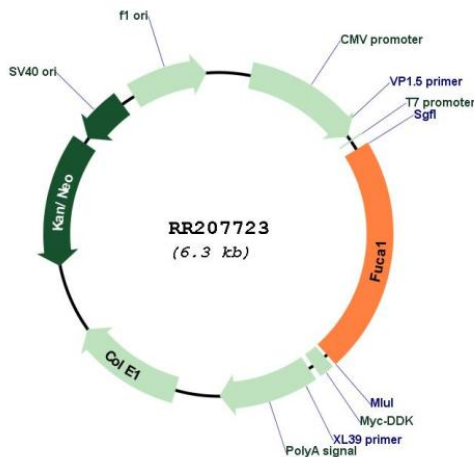
**Restriction Sites:**

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM\_012562

ORF Size: 1386 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\\_012562.2](#), [NP\\_036694.2](#)

**RefSeq Size:** 1515 bp

**RefSeq ORF:** 1389 bp

**Locus ID:** 24375

**UniProt ID:** [P17164](#)

**Cytogenetics:** 5q36

**MW:** 53.5 kDa

**Gene Summary:** catalyzes the hydrolysis of an alpha-L-fucoside to an L-fucose [RGD, Feb 2006]