

Product datasheet for MR205565

Ackr3 (NM_007722) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ackr3 (NM_007722) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Ackr3
Synonyms:	AW541270; Cmkor1; CXC-R7; CXCR-7; Cxcr7; RDC-1; Rdc1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR205565 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGATGTGCACTTGTTGACTATGCAGAGCCTGGCAACTACTCTGACATCAACTGGCCATGTAACAGCA
GCGACTGCATTGTGGTGGACACTGTGCAGTGTCCACCATGCCTAACAGAAGCTGCTTCTGTATACCCCT
CTCCTTCACTACATTTTCATCTCGTGATCGGCATGATTGCCAACTCTGTGGTGGTCTGGGTGAATATC
CAGGCTAAGACCACAGGCTACGACACGCACTGCTACATCTTGAACCTGGCCATTGCAGACCTGTGGGTGC
TCATCACCATCCCGTCTGGGTGGTCTCGTGCAGCATAACCAGTGGCCATGGGGAGCTCACATG
CAAGATCACACACCTCATTTTCTCCATCAACCTCTTTGGGAGCATCTTCTCCTCGCTGCATGAGCGTG
GACCGTATCTCTCCATCACCTACTTACCCGGCACCTCCAGCTATAAGAAGAAGATGGTACGCCGTGTTG
TATGCATCTTGGTGTGGCTGCTGGCCTTCTTTGTGCCCTGCCTGATACCTACTACCTGAAGACGGTAC
ATCTGCTTCCAACAATGAGACCTACTGCAGGTCCTTCTACCCCGAGCACAGCATCAAGGAGTGGCTGATC
GGCATGGAGCTGGTCTCTGTCACTTGGGCTTTGCTGTCCCTTCACTATCATTGCGATCTTCTACTTCC
TGCTCGTAGAGCCATGTCAGCATCAGGCGACCAGGAGAAGCACAGTAGCCGGAAGATCATCTTCTCCTA
CGTGGTGGTCTTCTGGTATGTTGGCTGCCGTACCATTTGTGGTCTGCTGGACATCTTCTCCATCTTA
CACTACATCCCGTTTACCTGTGAGTGGAGAATGTGCTTTACACGCTTGCATGTCACCCAGTGCCTGT
CCTTGGTGCAGTGTGTCAACCCGTGCTCTATAGCTTCAACCGCAACTACAGGTACGAGCTGAT
GAAGGCCTTCACTTCAAGTACTCGGCCAAAACAGGTCTCACCAAGCTCATTGATGCCTCCAGAGTGTCA
GAGACAGAGTACTCTGCCTGGAACAGAACACCAAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR205565 protein sequence
Red=Cloning site Green=Tags(s)

MDVHFLDYAEPGNYSINWPCNSSDCIVVDTVQCPTMPKNVLLYTLFSFIYIFIFVIGMIANSVVVWVNI
 QAKTTGYDTHCYILNLAIDLWVVITIPVWVSLVQHNQWPMGELTCKITHLIFSINLFGSIFFLACMSV
 DRYLSITYFTGTSSYKKKMVRRVVCILVWLLAFFVSLPDTYYLKTVTSASNNETYCRSFYPEHSIKEWLI
 GMELVSILGFVFPFTIIAIFYFLLARAMSASGDQEKHSSRKIIFSYYVVVFLVCWLPYHFVLLDIFSIL
 HYIPFTCQLENVLFTHVLTQCLSLVHCCVNPVLYSFINRNYRYELMKAFIFKYSAKTGLTKLIDASRVS
 ETEYSALEQNTK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



ACCN: NM_007722

ORF Size: 1089 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_007722.1](#), [NM_007722.2](#), [NM_007722.3](#), [NM_007722.4](#), [NP_031748.2](#)

RefSeq Size: 2052 bp

RefSeq ORF: 1089 bp

Locus ID: 12778

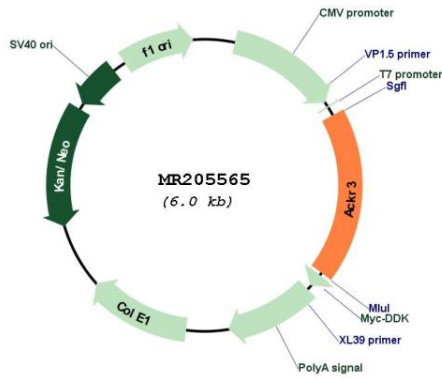
UniProt ID: [P56485](#)

Cytogenetics: 1 45.28 cM

MW: 41.6 kDa

Gene Summary: Atypical chemokine receptor that controls chemokine levels and localization via high-affinity chemokine binding that is uncoupled from classic ligand-driven signal transduction cascades, resulting instead in chemokine sequestration, degradation, or transcytosis. Also known as interceptor (internalizing receptor) or chemokine-scavenging receptor or chemokine decoy receptor. Acts as a receptor for chemokines CXCL11 and CXCL12/SDF1. Chemokine binding does not activate G-protein-mediated signal transduction but instead induces beta-arrestin recruitment, leading to ligand internalization and activation of MAPK signaling pathway. Required for regulation of CXCR4 protein levels in migrating interneurons, thereby adapting their chemokine responsiveness. In glioma cells, transduces signals via MEK/ERK pathway, mediating resistance to apoptosis. Promotes cell growth and survival. Not involved in cell migration, adhesion or proliferation of normal hematopoietic progenitors but activated by CXCL11 in malignant hematopoietic cells, leading to phosphorylation of ERK1/2 (MAPK3/MAPK1) and enhanced cell adhesion and migration. Plays a regulatory role in CXCR4-mediated activation of cell surface integrins by CXCL12. Required for heart valve development. [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR205565