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# Product datasheet for MG217173

## Ackr4 (NM_145700) Mouse Tagged ORF Clone

## Product data:

| | |
|---|---|
| **Product Type:** | Expression Plasmids |
| **Product Name:** | Ackr4 (NM_145700) Mouse Tagged ORF Clone |
| **Tag:** | TurboGFP |
| **Symbol:** | Ackr4 |
| **Synonyms:** | A630091E18Rik; CCBP2; CCR11; Ccrl1; CCX-CKR; CCX-CKR1; Cmkbrl1; PPR1; VSHK1 |
| **Mammalian Cell Selection:** | Neomycin |
| **Vector:** | pCMV6-AC-GFP (PS100010) |
| **E. coli Selection:** | Ampicillin (100 ug/mL) |

**ORF Nucleotide Sequence:**

```
>MG217173 representing NM_145700
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCTCTGGAGCAGAACCAGTCAGCGGAATACTATTATGAGGAGAATGAGATGAACTACACTCACGACT
ACAGCCAGTACGAAGTGATCTGCATAAAAGAAGAGGTCAGGCAGTTTGCAAAAGTCTTCCTGCCTGCCTT
CTTCACAGTGGCCTTTGTCACTGGGCTCGCAGGGAACTCCGTAGTTGTGGCGATTTACGCCTATTACAAG
AAGCAGAGGACCAAGACCGATGTGTACATCCTGAACCTGGCTGTAGCAGACTTGTTACTTCTGATCACGC
TGCCTTTCTGGGCAGTTAATGCAGTTCACGGATGGATTCTAGGCAAAATGATGTGCAAAGTAACGTCAGC
CCTGTACACGGTAAACTTTGTCTCTGGGATGCAGTTCCTGGCTTGTATCAGCATTGACAGATATTGGGCA
ATTACCAAAGCCCCCAGCCAATCAGGAGCGGGGAGACCCTGTTGGATCATCTGTTGCTGTGTGTGGATGG
CCGCCATCTTGCTGAGCATACCCCAGCTGGTTTTTTACACAGTGAATCAGAATGCTAGGTGCACTCCCAT
CTTTCCCCACCACCTAGGAACATCCCTGAAAGCATCCATTCAGATGCTGGAAATCGGCATCGGCTTTGTG
GTCCCGTTTCTCATCATGGGCGTGTGCTATGCCAGTACCGCCAGGGCGCTCATCAAGATGCCCAACATTA
AAAAGTCTCGCCCCCTCAGGGTTCTGCTCGCGGTGGTGGTGGTTTTCATTGTCACCCAGCTGCCCTATAA
CGTTGTTAAGTTCTGCCAAGCCATAGATGCCATCTACCTGCTGATCACCAGCTGCGATATGAGCAAACGC
ATGGATGTCGCCATCCAAGTCACAGAGAGCATCGCGCTCTTCCACAGCTGCCTCAACCCCATCCTGTATG
TCTTCATGGGGGCCTCCTTCAAAAACTATATCATGAAAGTGGCCAAGAAATATGGATCCTGGAGAAGACA
GAGACAGAACGTGGAAGAAATTCCTTTTGATTCTGAGGGTCCTACAGAGCCAACCAGTTCTTTTACCATT

ACGCGTACGCGGCCGCTCGAG - GFP Tag -  GTTTAA
```

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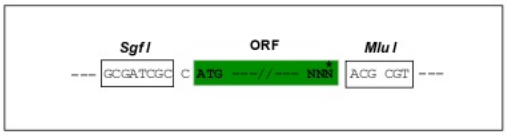
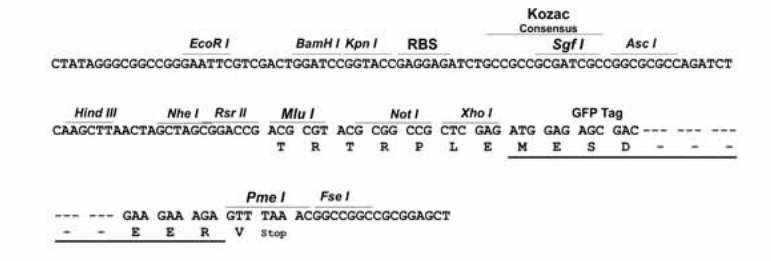
**Protein Sequence:**

```
>MG217173 representing NM_145700
Red=Cloning site Green=Tags(s)

MALEQNQSAEYYYEENEMNYTHDYSQYEVICIKEEVRQFAKVFLPAFFTVAFVTGLAGNSVVVAIYAYYK
KQRTKTDVYILNLAVADLLLLITLPFWAVNAVHGWILGKMMCKVTSALYTVNFVSGMQFLACISIDRYWA
ITKAPSQSGAGRPCWIICCCVWMAAILLSIPQLVFYTVNQNARCTPIFPHHLGTSLKASIQMLEIGIGFV
VPFLIMGVCYASTARALIKMPNIKKSRPLRVLLAVVVVFIVTQLPYNVVKFCQAIDAIYLLITSCDMSKR
MDVAIQVTESIALFHSCLNPILYVFMGASFKNYIMKVAKKYGSWRRQRQNVEEIPFDSEGPTEPTSSFTI

TRTRPLE - GFP Tag -  V
```

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**




**ACCN:** NM_145700

**ORF Size:** 1050 bp

**OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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.

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| | |
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| **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.<br>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.<br>3. Close the tube and incubate for 10 minutes at room temperature.<br>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.<br>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_145700.2, NP_663746.2 |
| **RefSeq Size:** | 2109 bp |
| **RefSeq ORF:** | 1053 bp |
| **Locus ID:** | 252837 |
| **UniProt ID:** | Q924I3 |
| **Cytogenetics:** | 9 F1 |
| **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 CCL2, CCL8, CCL13, CCL19, CCL21 and CCL25. Chemokine-binding does not activate G-protein-mediated signal transduction but instead induces beta-arrestin recruitment, leading to ligand internalization. Plays an important role in controlling the migration of immune and cancer cells that express chemokine receptors CCR7 and CCR9, by reducing the availability of CCL19, CCL21, and CCL25 through internalization. Negatively regulates CXCR3-induced chemotaxis. Regulates T-cell development in the thymus and inhibits spontaneous autoimmunity.[UniProtKB/Swiss-Prot Function] |

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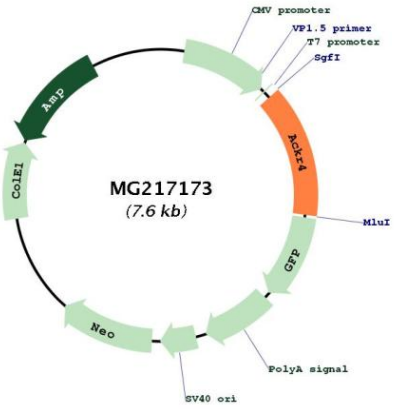
## Product images:




Circular map for MG217173

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