

Product datasheet for **RC209757**

XAGE2 (NM_130777) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: XAGE2 (NM_130777) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: XAGE2
Synonyms: CT12.2; GAGED3; XAGE-2; XAGE2B
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >RC209757 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAGTTGGCGAGGAAGATCAACATATAGGCCTAGGCCAAGAAGAAGTTTACAGCCTCCTGAGCTGATTG
GGGCTATGCTTGAACCCACTGATGAAGAGCCTAAAGAAGAGAAACCACCCACTAAAAGTCGGAATCCTAC
ACCTGATCAGAAGAGAGAAGATGATCAGGGTGCAGCTGAGATTCAAGTGCCTGACCTGGAAGCCGATCTC
CAGGAGCTATGTCAGACAAAGACTGGGGATGGATGTGAAGGTGGTACTGATGTCAAGGGGAAGATTCTAC
CAAAGCAGAGCACTTTAAAATGCCAGAAGCAGGTGAAGGGAAATCACAGTT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC209757 protein sequence
Red=Cloning site Green=Tags(s)
MSWRGRSTYRPRRSLQPPELIGAMLEPTDEEPKEEKPTKSRNPTPDQKREDDQGAAEIQVPDLEADL
QELCQTKTGDGCEGGTDVKGKILPKAEHFKMPEAGEGKSQV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6364_g12.zip

Restriction Sites: SgfI-MluI



[View online »](#)

Cloning Scheme:


ACCN: NM_130777

ORF Size: 333 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_130777.3](#)

RefSeq Size: 651 bp

RefSeq ORF: 336 bp

Locus ID: 9502

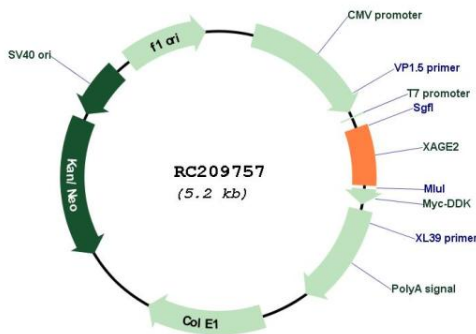
UniProt ID: [Q96GT9](#)

Cytogenetics: Xp11.22

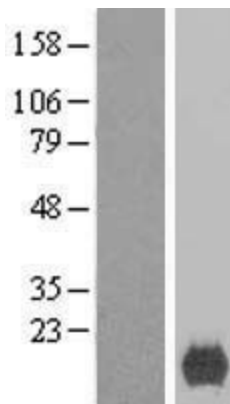
MW: 12.4 kDa

Gene Summary: This gene is a member of the XAGE subfamily, which belongs to the GAGE family. The GAGE genes are expressed in a variety of tumors and in some fetal and reproductive tissues. This gene is strongly expressed in normal testis, and in Ewing's sarcoma, rhabdomyosarcoma, a breast cancer and a germ cell tumor. The protein encoded by this gene shares a sequence similarity with other GAGE/PAGE proteins. Because of the expression pattern and the sequence similarity, this protein also belongs to a family of CT (cancer-testis) antigens. [provided by RefSeq, Jul 2008]

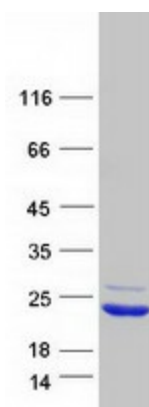
Product images:



Circular map for RC209757



Western blot validation of overexpression lysate (Cat# [LY408939]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC209757 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified XAGE2 protein (Cat# [TP309757]). The protein was produced from HEK293T cells transfected with XAGE2 cDNA clone (Cat# RC209757) using MegaTran 2.0 (Cat# [TT210002]).