

Product datasheet for **RC212514**

XAGE1 (XAGE1E) (NM_001097604) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: XAGE1 (XAGE1E) (NM_001097604) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: XAGE1
Synonyms: CT12.1; CT12.1b; CT12.1C; CT12.1D; CT12.1E; CTP9; GAGED2; XAGE-1; XAGE1; XAGE1C; XAGE1D; XAGE1E
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >RC212514 representing NM_001097604
Red=Cloning site **Blue**=ORF **Green**=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

**ATGGAGAGCCCCAAAAGAAGAACCAGCAGCTGAAAGTCGGGATCCTACACCTGGGCAGCAGACAGAAGA
AGATCAGGATACAGCTGAGATCCCAGTGC GCGACATGGAAGGTGATCTGCAAGAGCTGCATCAGTCAAAC
ACCGGGGATAAATCTGGATTTGGGTTCCGGCGTCAAGGTGAAGATAATACCTAAAGAGGAACACTGTAAA
ATGCCAGAAGCAGGTGAAGAGCAACCACAAGTT**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC212514 representing NM_001097604
Red=Cloning site **Green**=Tags(s)

MESPKKNQQLKVGILHLGSRQKKIRIQLRSQCATWKVICKSCISQTPGINLDLGSVGVKVIIPKEEHCK
MPEAGEEQPV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/ja1968_a08.zip

Restriction Sites: Sgfl-Mlul



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Cloning Scheme:


ACCN: NM_001097604

ORF Size: 243 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_001097604.2](#), [NP_001091073.2](#)

RefSeq Size: 622 bp

RefSeq ORF: 246 bp

Locus ID: 653067

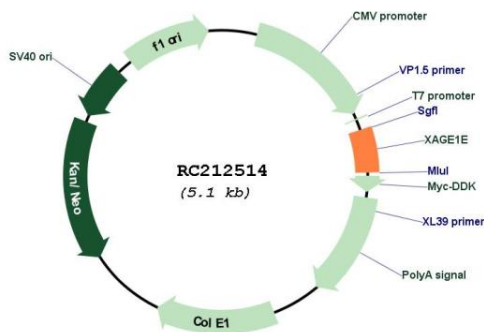
UniProt ID: [Q9HD64](#)

Cytogenetics: Xp11.22

MW: 9.1 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 Ewing's sarcoma, alveolar rhabdomyosarcoma and normal testis. The protein encoded by this gene contains a nuclear localization signal and 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. Alternative splicing of this gene, in addition to alternative transcription start sites, results in multiple transcript variants. [provided by RefSeq, Jan 2010]

Product images:



Circular map for RC212514