Product datasheet for RC224733

XAGE1C (NM_001097598) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	XAGE1C (NM_001097598) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	XAGE1C
Synonyms:	CT12.1; CT12.1C; CTP9; GAGED2; XAGE-1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC224733 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s) TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCCGCGATCGCC ATGGAGAGCCCCAAAAAGAAGAACCAGCAGCTGAAAGTCGGGATCCTACACCTGGGCAGCAGACAGAAGA AGATCAGGATACAGCTGAGATCCCAGGTGCTGGGAAGGGAAATGCGCGACATGGAAGGTGATCTGCAAGA GCTGCATCAGTCAAACACCGGGGATAAATCTGGATTTGGGTTCCGGCGTCAAGGTGAAGATAATACC ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAGGTTTAA
Protein Sequence:	>RC224733 protein sequence Red=Cloning site Green=Tags(s) MESPKKKNQQLKVGILHLGSRQKKIRIQLRSQVLGREMRDMEGDLQELHQSNTGDKSGFGFRRQGEDNT TRTRPLEQKLISEEDLAANDILDYKDDDDKV
Chromatograms:	https://cdn.origene.com/chromatograms/mk8104_d06.zip
Restriction Sites:	SgfI-MluI

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Cloning Scheme:

Cloning sites used for ORF Shuttling:

Sgf I	ORF	Mlu I
GCGATCGC	C ATG ---//--- NNN	ACG CGT

EcoR I — BamH I Kpn I — RBS — Kozac Consensus — Sgf I
CTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCCGCCGCGATCGC C ATG --- ---

ORF
--- --- --- --- --- NNN

Mlu I	Not I	Xho I		Myc.Tag		
ACG CGT	ACG CGG CCG	CTC	GAG CAG AAA	CTC ATC TCA	GAA GAG
T R	T R P	L	E Q K	L I S	E E

			EcoR V		Flag.Tag				Pme I	Fse I
GAT CTG GCA GCA AAT	GAT ATC	CTG	GAT TAC AAG GAT GAC GAC GAT AAG	GTT TAA	ACGGCCGGCC
D L A A N	D I	L	D Y K D D D D K	V Stop	

* The last codon before the Stop codon of the ORF

ACCN: NM_001097598

ORF Size: 207 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.
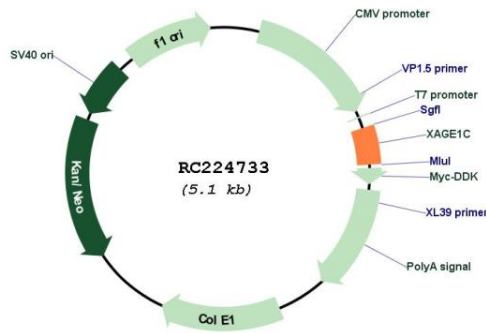
RefSeq: NM_001097598.2, NP_001091067.1

RefSeq Size: 485 bp

RefSeq ORF: 209 bp

Locus ID:	653048
Cytogenetics:	Xp11.22
MW:	8 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 RC224733