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Product datasheet for MR200719

Chrac1 (NM_053068) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Chrac1 (NM_053068) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Chrac1
Synonyms:	2410152E03Rik; 2810406L04Rik; YCL1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR200719 representing NM_053068 Red=Cloning site Blue=ORF Green=Tags(s) TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCCGCGATCGCC ATGGCGGACGCGGCCGTGGGGAAGGAAAAGTGCGGGGACCAGCGGCTCGTGTCATTGCCCCTGTCCCGCA TCCGAGTCATCATGAAGAGCTCTCCCGAGGTGTCGAGCATCAACCAGGAGGCGCTGGTGCTCACGGCCAA GGCCACGGAGCTCTTTGTTCAGTACCTAGCCACCTGTTCCTACAGACACGGAAGTGGCAAAGCCAAGAAA GCACTGACGTACAGCGACTTAGCCAGCACTGCAGAGGACTCGGAGACACTTCAGTTTCTCGCAGATATAT TACCAAAGAAGATTTTAGCTAGTAAGTACCTGAAAATGCTCAAAGAGAAGAGGGAAGAGGAGGAGGACAA TGAGGACGATGGAAGCGACCTTGGTGAAGCCCTGGCT ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAGGTTTAA
Protein Sequence:	>MR200719 representing NM_053068 Red=Cloning site Green=Tags(s) MADAAVGKEKCGDQRLVSLPLSRIRVIMKSSPEVSSINQEALVLTAKATELFVQYLATCSYRHGSGKAKK ALTYSDLASTAEDSETLQFLADILPKKILASKYLKMLKEKREEEEDNEDDGSDLGEALA TRTRPLEQKLISEEDLAANDILDYKDDDDKV
Chromatograms:	https://cdn.origene.com/chromatograms/mm9053_b06.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                Mlu I      Not I     Xho I              Myc.Tag
                    *  ACG CGT ACG CGG CCG CTC GAG CAG AAA CTC ATC TCA GAA GAG
--- --- --- --- NNN    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

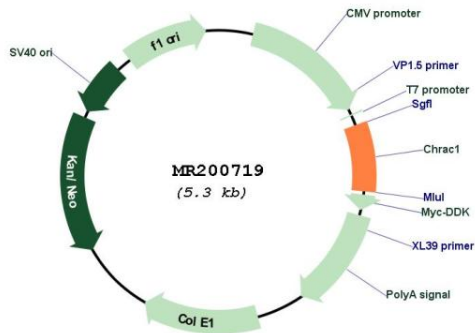|	
ACCN:	NM_053068
ORF Size:	387 bp
OTI Disclaimer:	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its 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_053068.3, NP_444298.1
RefSeq Size:	851 bp
RefSeq ORF:	390 bp
Locus ID:	93696
UniProt ID:	Q9JKP8

ORIGENE

Cytogenetics:	15 D3
MW:	14.6 kDa
Gene Summary:	Forms a complex with DNA polymerase epsilon subunit POLE3 and binds naked DNA, which is then incorporated into chromatin, aided by the nucleosome remodeling activity of ISWI/SNF2H and ACF1.[UniProtKB/Swiss-Prot Function]

Product images:

Circular map for MR200719