

Product datasheet for **RC227212**

POTEM (NM_001145442) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Myc-DDK
Symbol:	POTEM
Synonyms:	ACT; P704P; POTE14beta
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



ORF Nucleotide Sequence: >RC227212 representing NM_001145442
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAACTACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGGTGGCTGAGGCTGGTTCAATGCCGGCTGCCTCCTCTGTGAAGAAGCCATTTGGTCTCAGAAGCAAGA
 TGGGCAAGTGGTGCCGCACTGCTTCCCCTGGTGCAGGGGAGCGGCAAGAGCAACGTGGGCACTTCTGG
 AGACCACGATGATTCTGCTATGAAGACACTCAGGAGCAAGATGGGCAAGTGGTCCGCCACTGCTTCCCC
 TGGTGCAGGGGAGCGGCAAGAGCAACGTGGGCACTTCTGGAGACCACGACACTCTGCTATGAAGACAC
 TCAGGAGCAAGATGGGCAAGTGGTGTGCCACTGCTTCCCCTGCTGCAGGGGAGCGGCAAGAGCAAAAGT
 GGGCCCCTGGGGAGACTACGACGACAGCGCTTTCATGGAGCCGAGGTACCACGTCCGTGCGAAGATCTG
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 AAACATTGATGATCTTCTCAAGATCTATCTGGACAGACGGCCAGAGATGCTGTTTCTAGTCGTCAT
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 ATCCAGAACAAGACTTAAAGCTGACATCAGAGGAAGAGTCACAAAGGCTTAAAGGAAGTGAATAGCCA
 GCCAGAGGAAATGTCTCAAGAACAGAAATAAATAAGGGTGGTGATAGAAAGGTTGAAGAAGAAATGAAG
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 GATGAGATTCTGATTCATGAAGAAAAGCAGATAGAAGTGGCTGAAATGAATTC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC227212 representing NM_001145442
 Red=Cloning site Green=Tags(s)

MVAEAGSMPAASSVKKPFGLRSKMGKWRHCFPWCRGSGKSNVGTSGDHDDSAMKTLRSKMGKWRHCFP
 WCRGSGKSNVGTSGDHDDSAMKTLRSKMGKWCCHCFPCCRGSKSKVGPWGDYDDSAFMEPRYHVRREDL
 DKLHRAAWWGKVPKDLIVMLKDTDMNKKDKQKRTALHLASANGNSEVVKLLDRRCQLNILDNKKRTAL
 TKAVQCQEDECALMLEHGTDPNIPDEYGNALHYAIYNEDKLMKALLLYGADIESKNKHGLTPLLLGV
 HEQKQVVKFLIKKANLNALDRYGRVLIILAVCCGSASIVSLLLEQNIDVSSQDLGQTAAREYAVSSRH
 NVICQLLSDYKEKQILKVSSSENSPEQDLKLTSEESQRLKGSNSQPEMSQPEINKGGDRKVEEEMK
 KHGSTMGFENLPNGATADNGDDGLIPPRKSRTPESSQFPDTENEQYHSDEQNDTQKQLSEEQNTGILQ
 DEILIHEEKQIEVAENEF

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001145442

ORF Size: 1524 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:

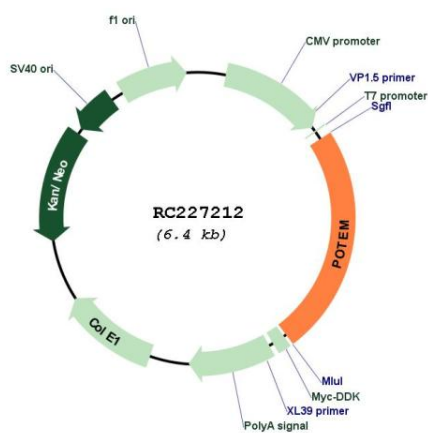
1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_001145442.1](#), [NP_001138914.1](#)

RefSeq ORF: 1527 bp

Locus ID: 641455
UniProt ID: [A6NI47](#)
Cytogenetics: 14q11.2
MW: 56.9 kDa

Product images:

Circular map for RC227212