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Product datasheet for RC208405

ECEL1 (NM_004826) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ECEL1 (NM_004826) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	ECEL1
Synonyms:	DA5D; DINE; ECEX; XCE
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC208405 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGAGCCCCCGTATTCGCTGACGGCGCACTACGATGAGTTCCAAGAGGTCAAGTACGTGAGCCGCTGCG
GCGCGGGGGGCGCGCGCGGGGCCTCCCTGCCCCCGGGCTTCCCGTTGGGCGCTGCGCGCAGCGCCACCGG
GGCCCGGTCCGGGCTGCCGCGCTGGAACCGGCGCGAGGTGTGCCTGCTGTCGGGGCTGGTGTTCGCCGCC
GGCCTCTGCGCCATTCTGGCGGCTATGCTGGCCCTCAAGTACCTGGGCCCGGTCGCGGCCGGCGGCGGCG
CCTGTCCCGAGGGCTGCCCTGAGCGCAAGGCCTTCGCGCGCGCCGCTCGCTTCCTGGCCGCCAACCTGGA
CGCCAGCATCGACCCATGCCAGGACTTCTACTCGTTCGCCTGCGGCGGTTGGCTGCGGCGCCACGCCATC
CCCGACGACAAGCTCACCTATGGCACCATCGCGGCCATCGGCGAGCAAAACGAGGAGCGCCTACGGCGCC
TGCTGGCGCGGCCCGGGGGTGGGCCTGGCGGCGCGGCCCAGCGCAAGGTGCGCGCCTTCTTCCGCTCGTG
CCTCGACATGCGCGAGATCGAGCGACTGGGCCCGCGACCCATGCTAGAGGTCATCGAGGACTGCGGGGGC
TGGGACCTGGGCGGCGCGGAGGAGCGTCCGGGGGTCGCGGCGCGATGGGACCTCAACCGGCTGCTGTACA
AGGCGCAGGGCGTGTACAGCGCCGCCGCGCTCTTCTCGCTCACGGTCAGCCTGGACGACAGGAACTCCTC
GCGCTACGTCATCCGCATTGACCAGGATGGGCTCACCCTGCCAGAGAGGACCCTGTACCTCGCTCAGGAT
GAGGACAGTGAGAAGATCCTGGCAGCATACAGGGTGTTCATGGAGCGAGTGCTCAGCCTCCTGGGTGCAG
ACGCTGTGGAACAGAAGGCCCAAGAGATCCTGCAAGTGGAGCAGCAGCTGGCCAACATCACTGTGTCAGA
GTATGACGACCTACGGCGAGATGTCAGCTCCATGTACAACAAGGTGACGCTGGGGCAGCTGCAGAAGATC
ACCCCCCACTTGCGGTGGAAGTGGCTGCTAGACCAGATCTTCCAGGAGGACTTCTCAGAGGAAGAGGAGG
TGGTGCTGCTGGCGACAGACTACATGCAGCAGGTGTCGCAGCTCATCCGCTCCACACCCCACCGGGTCCT
GCACAACTACCTGGTGTGGCGCGTGGTGGTGGTCCTGAGTGAACACCTGTCCCCGCCATTCCGTGAGGCA
CTGCACGAGCTGGCACAGGAGATGGAGGGCAGCGACAAGCCACAGGAGCTGGCCCGGGTCTGCTTGGGCC
AGGCCAATCGCCACTTTGGCATGGCGCTTGGCGCCCTCTTTGTACATGAGCACTTCTCAGCTGCCAGCAA
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ACTTCCTGCTGAAACCCGATGCTGTGGACAAGGAGTATGAGTTTGAGGTCCATGAGAAGACCTACTTCAA
GAACATCTTGAACAGCATCCGCTTCAGCATCCAGCTCTCAGTTAAGAAGATTCGGCAGGAGGTGGACAAG
TCCACGTGGCTGCTCCCCCCACAGGCGCTCAATGCCTACTATCTACCCAACAAGAACCAGATGGTGTTCC
CCGCGGGCATCCTGCAGCCCACCCTGTACGACCCTGACTTCCCACAGTCTCTCAACTACGGGGGCATCGG
CACCATCATTGGACATGAGCTGACCCACGGCTACGACGACTGGGGGGGCCAGTATGACCGCTCAGGGAAC
CTGCTGCACTGGTGGACGGAGGCCTCCTACAGCCGCTTCCTGCGAAAGGCTGAGTGCATCGTCCGTCTCT
ATGACAACTTCACTGTCTACAACCAGCGGGTGAACGGGAAACACACGCTTGGGGAGAACATCGCAGATAT
GGGCGGCCTCAAGCTGGCCTACCACGCCTATCAGAAGTGGGTGCGGGAGCACGGCCCAGAGCACCCACTT
CCCCGGCTCAAGTACACACATGACCAGCTCTTCTTCATTGCCTTTGCCCAGAACTGGTGCATCAAGCGGC
GGTCGCAGTCCATCTACCTGCAGGTGCTGACTGACAAGCATGCCCCTGAGCACTACAGGGTGCTGGGCAG
TGTGTCCCAGTTTGAGGAGTTTGGCCGGGCTTTCCACTGTCCCAAGGACTCACCCATGAACCCTGCCCAC
AAGTGTTCCGTGTGG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC208405 protein sequence
Red=Cloning site Green=Tags(s)

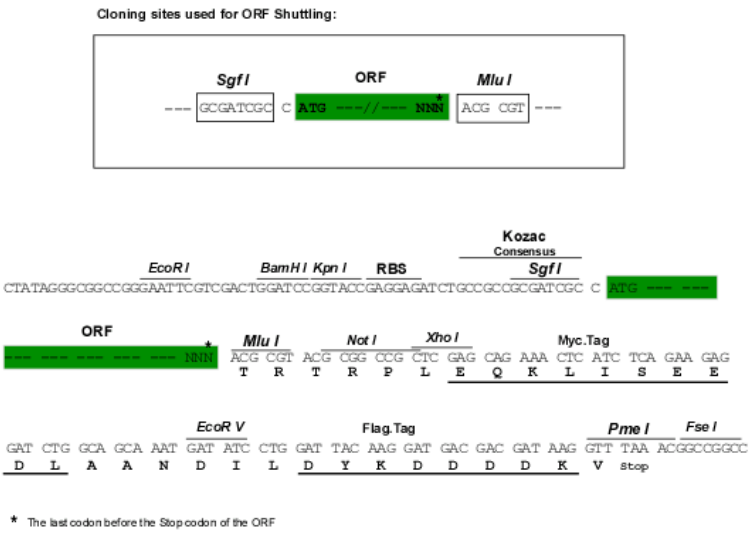
MEPPYSLTAHYDEFQEVKYVSRCGAGGARGASLPPGFPLGAARSATGARSGLPRWNRREVCLLSGLVFAA
GLCAILAAMLALKYLGPVAAGGGACPEGCPERKAFARAARFLAANLDASIDPCQDFYSFACGGWLRRHAI
PDDKLTYGTIAAIGEQNEERLRRLLARPGGGPGGAAQRKVRAFFRSCLDMREIERLGPRPMLEVIEDCGG
WDLGGAEERPGVAARWDLNRLLYKAQGVYSAAALFSLTVSLDDRNSSRYVIRIDQDGLTLPERTLYLAQD
EDSEKILAAYRVFMERVLSLLGADAVEQKAQEILQVEQQLANITVSEYDDLRRDVSSMYNKVTLGQLQKI
TPHLRWKWLLDQIFQEDFSEEEEVVLLATDYMQQVSQLIRSTPHRVLHNYLVWRVVVVLSEHLSPPFREA
LHELAQEMEGSDKPQELARVCLGQANRHFGMALGALFVHEHFSAASKAKVQQLVEDIKYILGQRLEELDW
MDAETRAAARAKLQYMMVMVGYPDFLLKPDAVDKEYEFEVHEKTYFKNILNSIRFSIQLSVKKIRQEVDK
STWLLPPQALNAYYLPNKNQMVFPAGILQPTLYDPDFPQSLNYGGIGTIIGHELTHGYDDWGGQYDRSGN
LLHWWTEASYSRFLRKAECIVRLYDNFTVYNQRVNGKHTLGENIADMGGLKLAYHAYQKWVREHGPEHPL
PRLKYTHDQLFFIAFAQNWCIKRRSQSIYLQVLTDKHAPEHYRVLGSVSQFEEFGRAFHCPKDSPMNPAH
KCSVW

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6218_h06.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_004826

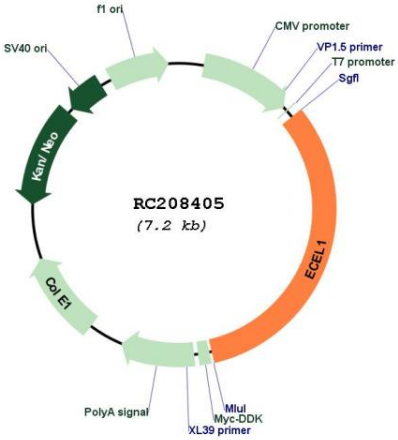
ORF Size: 2325 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

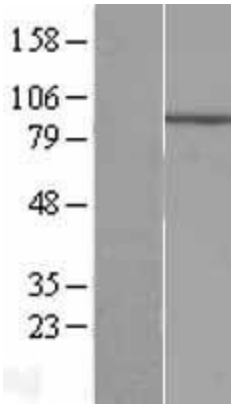
The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in 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_004826.4
RefSeq Size:	2909 bp
RefSeq ORF:	2328 bp
Locus ID:	9427
UniProt ID:	O95672
Cytogenetics:	2q37.1
Protein Families:	Druggable Genome, Protease, Transmembrane
MW:	87.8 kDa
Gene Summary:	This gene encodes a member of the M13 family of endopeptidases. Members of this family are zinc-containing type II integral-membrane proteins that are important regulators of neuropeptide and peptide hormone activity. Mutations in this gene are associated with autosomal recessive distal arthrogryposis, type 5D. This gene has multiple pseudogenes on chromosome 2. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Mar 2014]

Product images:



Circular map for RC208405



Western blot validation of overexpression lysate (Cat# [LY417714]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC208405 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).