

Product datasheet for **RC239860**

SCUBE3 (NM_001303136) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SCUBE3 (NM_001303136) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	SCUBE3
Synonyms:	CEGF3; SSFSC2
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RC239860 representing NM_001303136 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGGCTCGGGGCGGTACCCGGGCTCTGCCTGCTTGTCTGCTGGTCCACGCCCGCCGCCAGTACA
GCAAAGCCGCGCAAGATGTGGATGAGTGTGTGGAGGGGACTGACAACGCCACATCGATGCTATCTGCCA
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CCTGCTCTGAATGCCAGGTCACCTTCATCCACCTTAAGTGTGACTCCTCTCGGAAGGGCAAGGGCCGACG
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ACGCGTACGCGGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
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Protein Sequence:

>RC239860 representing NM_001303136
 Red=Cloning site Green=Tags(s)

MGSGRVPGLCLLVLLVHARAQYSKAAQDVDECEVEGTDNCHIDAICQNTPRSYKICKSGYTGDKHCKD
 VDECEREDNAGCVHDCVNIPGNRYRCTCYDGFHLAHDGHNCLDVDECAEGNGGCQQSCVNMMSYECRE
 GFFLSDNQHTCIQRPEGMNMCNKNHGCAHICRETPKGGIACECRPGFELTKNQRDCKLTCNYGNGCQHT
 CDDTEQGPARGCHIKFVLTGDKTCIETCAVNNGGCDKCHDAATGVHCTCPVGFMLQPDRKTCKDIDEC
 RLNNGGCDHICRNTVGSFECCKKGYKLLINERNQDIDECDFDRTCDHICVNTPGSFQCLCHRGYLLYG
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 KDTALTCPSRARFLPESENGFTVSCGTPSPRAAPARAGHNGNSTNSNHCHEAVLSIKQRASFKIKDAK
 CRLHLRNKKGKTEEAGRITGPGGAPCSECQVTFIHLKCDSSRKGKRRARTPPGKEVTRLTLELEAEVRAE
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 AGTKCVSPQGTYYHGQTEQCVPCAGTFQEREGQLSCDLCPGSDAHGPLGATNVTTAGQCAPPQHSVD
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 PDFRQNFCSRCPGNTSTDFDGSTSVAQCKNRQCGGELGEFTGYIESPNYPGNYPAGVECIWNINPPPKRK
 ILIVVPEIFLPSSEDECGDVLVMRKNSSPSSITTYETCQTYERPIAFTARSRKLWINFKTSEANSARGFQI
 PYVTYDEDEYQLVEDIVRDGRLYASENHQEILDKKLIKAF FEVL AHPQNYFKYTEKHKEMLPKSFIKLL
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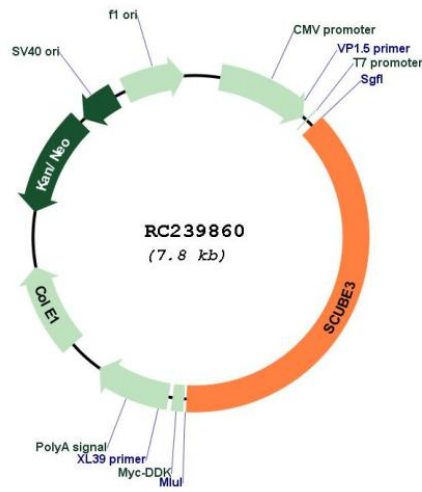
Restriction Sites:

Sgfl-Mlul

Cloning Scheme:



Plasmid Map:



ACCN: NM_001303136
 ORF Size: 2976 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:	<ol style="list-style-type: none">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_001303136.2
RefSeq Size:	7732 bp
RefSeq ORF:	2979 bp
Locus ID:	222663
UniProt ID:	Q8IX30
Cytogenetics:	6p21.31
Protein Families:	Druggable Genome, Secreted Protein
MW:	109.6 kDa
Gene Summary:	This gene encodes a member of the signal peptide, complement subcomponents C1r/C1s, Uegf, bone morphogenetic protein-1 and epidermal growth factor-like domain containing protein family. Overexpression of this gene in human embryonic kidney cells results in secretion of a glycosylated form of the protein that forms oligomers and tethers to the cell surface. This gene is upregulated in lung cancer tumor tissue compared to healthy tissue and is associated with loss of the epithelial marker E-cadherin and with increased expression of vimentin, a mesenchymal marker. In addition, the protein encoded by this gene is a transforming growth factor beta receptor ligand, and when secreted by cancer cells, it can be cleaved in vitro to release the N-terminal epidermal growth factor-like repeat domain and the C-terminal complement subcomponents C1r/C1s domain. Both the full length protein and C-terminal fragment can bind to the transforming growth factor beta type II receptor to promote the epithelial-mesenchymal transition and tumor angiogenesis. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Dec 2014]