

Product datasheet for **MR210325**

Smurf1 (NM_029438) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Smurf1 (NM_029438) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Smurf1
Synonyms:	4930431E10Rik; mKIAA1625
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR210325 representing NM_029438
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGTCGAACCCCGGACCCGTAGGAACGGCTCCAGCATCAAGATCCGTCTGACAGTATTGTGTGCCAAGA
 ACCTTGCAAAGAAAGACTTCTTCAGACTCCCCGACCCCTTTGCCAAGATTGTTGTGGACGGCTCTGGGCA
 GTGCCACTCAACCGACTGTGAAAAACACCCTGGACCCAAAGTGAACAGCACTATGACCTGTATGTT
 GGGAAAACGGACTCGATAACCATCAGTGTGTGGAACCACAAGAAGATCCACAAGAAGCAGGGGGCTGGCT
 TCCTGGGCTGTGTGCGGCTGCTCTCCAATGCCATCAGCAGATTGAAAGACTGGCTACCAGCGTTTGGGA
 TCTATGCAAACTAAATCCCTCAGATACTGATGCAGTTCGTGGCCAAATAGTGGTCAGTTTACAGACCCGA
 GACAGAATAGGCGGTGGAGGGTCAGTGGTGGACTGCAGAGGGCTGCTGGAGAACGAAGGAACAGTGTATG
 AAGACTCAGGCCCTGGAAGGCCGCTCAGCTGCCTCATGGAGGAACCTGCCCATATACAGATGGTACTGG
 TGCAGCAGCAGGAGGCGGGAACGCAGGTTTGTGGAGTCTCAAGCCAAGATCAGAGACTCCTGGTACAG
 CGACTCCGAAATCCTGAGGTTCCAGGGCCCTTACAGACACCCAGAACCACCACATGGCCACCAGTCGC
 CAGAGCTGCCTGAAGGCTATGAGCAAAGGACAACAGTGCAGGGACAAGTTTACTTTTTGCACACGCAGAC
 TGGAGTCAGTACATGGCATGACCCAGGATCCCCAGAGACCTTAACAGTGTGAACTGCGATGAACTTGGG
 CCACTGCCTCCAGGCTGGGAAGTCCGAAGCACAGTGTCCGGAAGAATCTATTTTGTAGATCAACAATAA
 GGACAACCCAGTTTACAGATCCACGGCTTACCACATCATGAATCACCAGTGCCAACTCAAGGAGCCAG
 CCAGCCGCTGCAGCTGCCAGTGAAGGCTCCGTGGAGGACGAGGAGCTTCTGCCAGAGATATGAGAGG
 GACTTAGTCCAGAAGCTCAAAGTCTCAGGCACGAGCTCTCTTTCAGCAGCCCCAGGCTGGTCACTGTC
 GAATAGAAGTCTCCAGAGAAGAGATATTTGAGGAGTCTGATCGCCAGATCATGAAGATCGCGCCAAAAGA
 CCTAAAGAAGCGCCTGATGGTGAAGTCCGAGGGGAGGAAGGTTTGGACTATGGTGGAGTGGCTCGGGAG
 TGGCTGTATTTGTGTGCCATGAAATGTTGAACCCGTAATGACTCTTCCAGTATTCCACGGACAATA
 TTTACACACTGCAGATCAACCCAGATTCTTCTATCAACCCGTAATGACTCTTCCACTTTGTGGG
 TCGCATCATGGTCTGGCTGTGTTCCACGGACTACATAAATGGGGTTTACAGTTCGGTCTACAAG
 CAGCTCCTGGGAAGCCAATCCAGCTGTCGACCTGGAGTCCGTGGACCCAGAAGTGCATAAGAGCTTGG
 TGTGGATTCTAGAGAATGACATCAGCCTGTGTTGGATCATACTTCTGCGTGGAGCACAACGCTTTCGG
 GCGGATTCTCCAGCATGAACTGAAACCCAATGGCAGAAATGTGCCTGTCAGTGGAGAGAACAAGAAGGAA
 TACGTCGGCTGTATGTGAAGTGGAGTTTATGAGAGGAATCGAAGCCAGTTCTTAGCACTTCCAGAGG
 GGTTTAAACGAACCTATCCCAACACTTCTGTAAGCCCTTTGACCAGAAGGAAGTAGAGCTGATAATAGG
 TGGGCTGGATAAGATAGACCTGAACGACTGGAAGTCCAACACCCGGCTGAAACACTGTGTGGCAGACAGC
 AACATCGTCAGGTGGTCTGGCAGGCGGTGGAGACCTTCGATGAGGAGAGGAGAGCCAGACTCCTGCAGT
 TTGTGACAGGATCCACAAGAGTTCCTCTCAAGGCTTCAAGGCTCTGCAAGGCGCGGCAGGGCCCCGGCT
 GTTACCATTACCTGATAGACGCCAATACAGACAACCTGCCAAGGCCATACCTGCTTTAATCGGATC
 GACATCCCACCCTATGAGTCCTATGAGAAGCTCTATGAGAAGCTGCTGACAGCGGTGGAGGAAACCTGTG
 GCTTTGCAGTGGAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR210325 representing NM_029438
Red=Cloning site Green=Tags(s)

MSNPGTRRNGSSIKIRLTVLCAKNLAKKDFRLLPDPFAKIVVDGSGQCHSTDTVKNTLDPKWNQHYDLYV
 GKTDSITISVWNHKKIHKKQAGFLGCVRLLSNAISRKDTGYQRLDLCKLNPSDTDAVRGQIVVSLQTR
 DRIGGGGSVVDCRGLLENEGTVYEDSGPGRPLSCLMEEPAPYTDGTGAAAGGGNCRFVESPQDQRLLVQ
 RLRNPEVRGPLQTPQNRPHGHQSPPELPEGYEQRTTVQGQVYFLHTQTGVSTWHDPRIPRDLNSVNCDELG
 PLPPGWEVRSTVSGRIYFVDHNNRTTQFTDPRLHHIMNHQCQLKEPSQPLQLPSEGSVEDEELPAQRYER
 DLVQKLKVLRLHSLQPPQAGHCRIEVSREEIFEEYSYRQIMKMRPKDLKRLMVKFRGEEGLDYGGVARE
 WLYLLCHEMLNPYYGLFQYSTDNIYTLQINPDSSINPDHLSYHFVGRIMGLAVFHGHYINGGFTVPFYK
 QLLGKPIQLSDLESVDPELHKSLVWILENDITPVL DHTFCVEHNAFGRILQHELKPNRNPVTEENKKE
 YVRLYVNRWFRMGIEAQFLALQKGFNELIPQHLLKPFQKELELIIGGLDKIDLNDWKSNTRLKHCVADS
 NIVRWFWQAVETFDEERRARLLQFVTGSTRVPLQGFKALQGAAGPRLFTIHLIDANTDNLPAKHTCFNRI
 DIPPYESYEKLYEKLLTAVEETCGFAVE

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9040_a06.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_029438

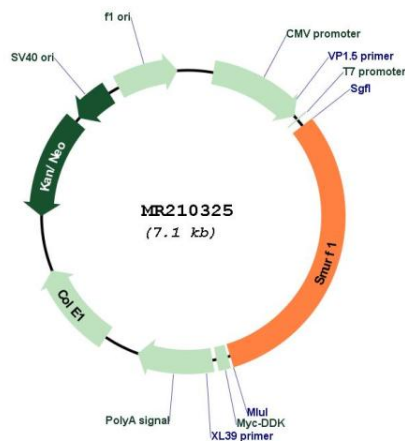
ORF Size: 2184 bp

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:	<u>NM_029438.3</u> , <u>NP_083714.3</u>
RefSeq Size:	5324 bp
RefSeq ORF:	2187 bp
Locus ID:	75788
UniProt ID:	<u>Q9CUN6</u>
Cytogenetics:	5 G2
MW:	83.6 kDa
Gene Summary:	E3 ubiquitin-protein ligase that acts as a negative regulator of BMP signaling pathway (By similarity). Mediates ubiquitination and degradation of SMAD1 and SMAD5, 2 receptor-regulated SMADs specific for the BMP pathway (By similarity). Promotes ubiquitination and subsequent proteasomal degradation of TRAF family members and RHOA (By similarity). Promotes ubiquitination and subsequent proteasomal degradation of MAVS (PubMed:23087404). Plays a role in dendrite formation by melanocytes (By similarity). [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR210325