

## Product datasheet for RC202539

### START domain containing 7 (STARD7) (NM\_020151) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	START domain containing 7 (STARD7) (NM_020151) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	START domain containing 7
Synonyms:	FAME2; GTT1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC202539 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCGGCGTTAGCCGGCGTCTTCGTTTGGGACGAGGAGAGGATCCAGGAGGAGGAGTTGCAGAGATCTA  
TTAATGAGATGAAGCGGTTGGAAGAAATGTCAAATATGTTTCAGAGCTCTGGAGTCCAGCACCACCTCC  
AGAACCAAAGCCCAAACAGAAGGGAATGAAGATTCAGAGGGCAAAGAGCAACGTTGGGAAATGGTGATG  
GATAAGAAACACTTTAAGCTGTGGCGGCCCAATTACAGGCACCACCTTTACCAGTACCGAGTTTTTG  
GAACCTACACAGATGTGACACCTCGGCAGTTCTCAATGTTTCAGCTGGACACAGAGTATAGAAAAAATG  
GGATGCCCTGGTAATCAAGCTGGAGGTGATTGAGAGGGATGTGGTTAGTGGTCCGAGGTTCTTCACTGG  
GTAACCCATTTTCTTATCCAATGTACTCACGGGATTATGTTTATGTTCCGGCGGTATAGTGTGGATCAGG  
AAAACAACATGATGGTGTGGTGTGCGGTGCTGTGGAGCATCCGAGTGTGCCAGAGTCTCCAGAATTCGT  
CAGGGTCAGATCATATGAATCCCAAATGGTTATCCGTCACCAAGTCATTTGATGAGAATGGCTTTGAC  
TACTTACTAACATACAGTGACAATCCCCAACGGTGTTCCTCGCTACTGTGTTAGTTGGATGGTTTCCA  
GTGGCATGCCAGATTTCTGGAGAAGCTGCACATGGCCACTCTGAAAGCCAAGAATATGGAGATTAAGT  
AAAGGACTACATCTCAGCTAAGCCTCTGAAATGAGTAGTGAAGCCAAGGCCACCAGCCAGTCTCTGAG  
CGAAAGAACGAGGGCAGCTGTGGCCCTGCTCGGATTGAGTATGCT

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RC202539 protein sequence  
Red=Cloning site Green=Tags(s)

MAALAGVFVWDEERIQEEELQRSINEMKRLEEMSNMFQSSGVQHHPPEPKAQTEGNEDEGKEQRWEMVM  
 DKKHFKLWRRPITGTHLYQYRVFGTYDVTPRQFFNVQLDTEYRKKWDALVIKLEVIERDVVSGSEVLHW  
 VTHFPYPMYSRDYVYVRRYSVDQENMMVLVSRAVEHPSVPESEPFVVRVRSYEQMVIRPHKSFDENGFD  
 YLLTYSDNPQTVFPRYCVSWMVSSGMPDFLEKLHMATLKAKNMEIKVKDYISAKPLEMSSEAKATSQSSE  
 RKNEGSCGPRIEYA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mk6085\\_e09.zip](https://cdn.origene.com/chromatograms/mk6085_e09.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_020151

**ORF Size:** 885 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\\_020151.2](#), [NP\\_064536.1](#)

**RefSeq Size:** 3394 bp

**RefSeq ORF:** 1113 bp

**Locus ID:** 56910

**UniProt ID:** [Q9NQZ5](#)

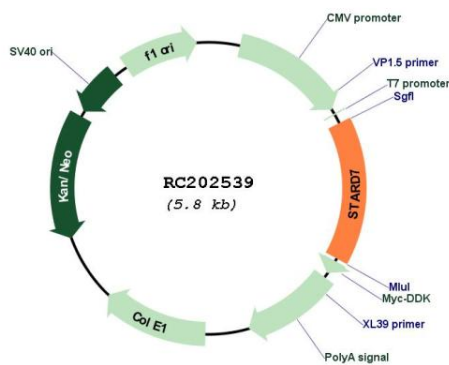
**Cytogenetics:** 2q11.2

**Domains:** START

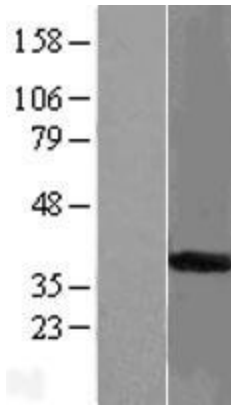
**MW:** 34.7 kDa

**Gene Summary:** May play a protective role in mucosal tissues by preventing exaggerated allergic responses. [UniProtKB/Swiss-Prot Function]

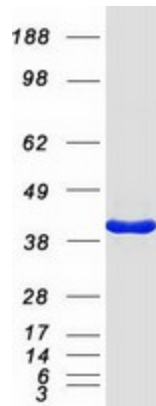
### Product images:



Circular map for RC202539



Western blot validation of overexpression lysate (Cat# [LY412634]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC202539 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified STARD7 protein (Cat# [TP302539]). The protein was produced from HEK293T cells transfected with STARD7 cDNA clone (Cat# RC202539) using MegaTran 2.0 (Cat# [TT210002]).