

## Product datasheet for **MR225135**

### **Asph (NM\_001177849) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Asph (NM_001177849) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Asph
Synonyms:	2310005F16Rik; 3110001L23Rik; AI848629; AW261690; AW561901; BAH; C79816; cl-37
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>MR225135 representing NM\_001177849  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGCCCCGCGCAAGAACGCCAAGGGCGCGCGGCAACAGCAGCAGCAGCGGCAGCGGCAGCGGCTCGG  
 GCAGCGGTAGCCCGAGCACGGGTAGCAGCGGTAGCAGCAGTAGCCCCGGGGCTCGGAGAGAGGCAAAGCA  
 CCGAGGACACAAGAATGGGAGAAGAGGAGGATTTTCAGGAGGGTCTTTTTTCACATGGTTCATGGTCATT  
 GCATTGCTCGGCGTCTGGACATCTGTGGCTGTCGTGTGGTTTGACTTGGTCGATTATGAAGAAGTCTAG  
 GAAAAGTCTATGATGCGGATGGCGATGGAGACTTTGATGTGGATGATGCCAAAGTTTTATTAGG  
 CCTTAAAGAAAGATCTCCTTCTGAGAGGACATTTCCACCGGAGGAGGAGGCAGAGACTCACGCTGAGCTG  
 GAGGAGCAGGCCCTGAGGGGGCAGACATCCAGAATGTTGAAGATGAAGTAAAGGAACAAATTCAGTCCC  
 TTCTTCAGGAATCAGTACACACAGACCATGACCTTGAAGCAGATGGGCTGGCAGGAGAACCACAGCCGGA  
 GTTGAGGACTTCTCACAGTGACCGACAGTGTGACAGATTTGAGGACCTGGAACCCGGGACAGTTCAT  
 GAAGAAATCGAGGATACTTACCATGTGGAAGACACAGCATCGCAGAACCATCCAATGACATGGAAGAGA  
 TGACGAATGAGCAGGAAAATTCAGAGGAAGTAAGACACCAAGACTATGATGAACCAAGTATATGAACCCCTC  
 AGAGCATGAAGGGGTGCGGATTTTCAGATAACACCATAGATGATTCAGCATAATCTCAGAAGAAATAAT  
 GTCGCCTCTGTTGAAGAACAGCAAGACACACCACAGTTAAGAAGAAGAGCCTAAACTTCTGAACAAAT  
 TTGATAAGACAATTAAGGCTGAGCTGGATGCTGCAGAAAAGCTCCGAAAAGGGGTAAAATTGAGGAAGC  
 AGTGAACGCATTTGAAGAAGTGGTTCGAAAAGTACCCTCAGAGCCCAGGCAAGATATGGCAAAGCGCAG  
 TGTGAAGATGACTTGGCAGAGAAGCAGAGAAGCAATGAGGTTCTGCGCAGGGCCATCGAGACCTACCAGG  
 AGGCAGCCGACCTGCCTGATGCCCTACAGACCTGGTGAAGTGTGAGCTTGAAGCGAAGGTGCGAACGGCA  
 GCAGTTTCTAGGTCACATGAGAGGTTCTCTACTTACCCTCAGAGACTAGTTCAACTGTTCCCTAGTGAT  
 ACTACCTTAAAAAACGACCTTGGCGTAGGATACCTCTTGTGGGAGACAACGACAGTGCCAAGAAGGTTT  
 ACGAAGAGGTGCTAAATGTGACACCAAATGATGGCTTCGCTAAAGTGCATTACGGCTTCATCCTGAAGGC  
 ACAGAACAAGATATCTGAGAGCATTCCCTACTTAAAGGAAGGAATCGAATCTGGGGACCCTGGCACGGAT  
 GATGGCCGTTTTACTTCCACTTGGGGATGCCATGCAGAGGGTCGGAACAAAGAGGCATATAAGTGGT  
 ATGAAGTGGGCACAAGAGAGGACATTTGCCTCTGTCTGGCAGCGTTCCTCTACAATGTGAATGGTCT  
 GAAGGCTCAGCCGTGGTGGACACCCAGGAGACTGGCTACACAGAGCTAGTGAAGTCTTTAGAGAGAAAC  
 TGAAGTTAATCCGTGATGAAGGCTCATGGTGTGGATAAAGCCAAGGGTCTCTTCTGCCTGAGGACG  
 AAAACCTTCGGGAGAAGGGCGACTGGAGCCAGTTCACACTGTGGCAGCAAGGAAGGAAGAAATGAGAAATGC  
 CTGTAAAGGAGCGCTAAGACCTGTGCTTTACTAGAAAAGTTTTCCGAAAACAACAGGATGCAAGAAGGGA  
 CAGATCAAACTCCATCATGCACCCTGGAACCTCATGTGTGGCCGATACAGGACCCACAAACTGCAGGC  
 TCCGAATGCATCTGGGGTTAGTGATCCCAAGGAAGGCTGCAAGATCCGGTGTGCCAATGAGACCAGGAC  
 GTGGGAAGAAGGCAAGGTGCTCATCTTTGATGACTCTTTTGAGCACGAGGTTTGGCAGGATGCCTCGTCT  
 TTCCGGCTGATATTCATCGTGGATGTGTGGCACCCGAGCTGACCCTCAGCAGAGACGCAGCCTTCCCG  
 CAATT

**ACGCGT**ACGCGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >MR225135 representing NM\_001177849  
 Red=Cloning site Green=Tags(s)

```
MAPRKNAKGGGGNSSSSGSGSGSGSPSTGSSGSSSSPGARREAKHGHHKNGRRGGISGGSFFTWFMVI
ALLGVWTSVAVVWFDLVDYEEVLGKLGVDADGDGDFDVDDAKVLLGLKERSPSERTFPPEEEAETHAEL
EEQAPEGADIQNVEDEVKEQIQSLLQESVHTDHDLEADGLAGEPQPEVEDFLTVTSDDRFEDLEPGTVH
EEIEDTYHVEDTASQNHNPNDMEEMTNEQENSEEVRHQDYDEPVYEPSEHEGVAISDNTIDDSSIISEEIN
VASVEEQDTPPVKPKLLNKFDKTIKAELDAEKLRRGKIEEAVNAFEELVRKYPQSPRARYGKAQ
CEDDLAEKQRSNEVLRRAIETYQEAADLPDAPTDLVKLSLKRRSERQQFLGHMRGSLTLQRLVQLFSPD
TTLKNDLGVGYLLLGDNDSAKKYEEVLNVTNPDGFAKVHYGFLKAQNKISESIPYLKEGIESGDPGTD
DGRFYFHLGDAMQRVGNKEAYKWYELGHKRGHFASVWQRSLYVNVNGLKAQPWWTPRETGYTELKSLERN
WKLIRDEGLMVMKAKGLFLPEDENLREKGDWSQFTLWQQGRKNENACKGAPKTCALLEKFSETTGCRRG
QIKYSIMHPGTHVWPHPTNCRRLRMHLGLVIPKEGCKIRCANETRTWEEGKVLIFDDSFHEHVQDASS
FRLIFIVDVVHPELTPQRRSLPAI
```

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_001177849

**ORF Size:** 2175 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.

**RefSeq:** [NM\\_001177849.1](#), [NP\\_001171320.1](#)

**RefSeq Size:** 6640 bp

**RefSeq ORF:** 2178 bp

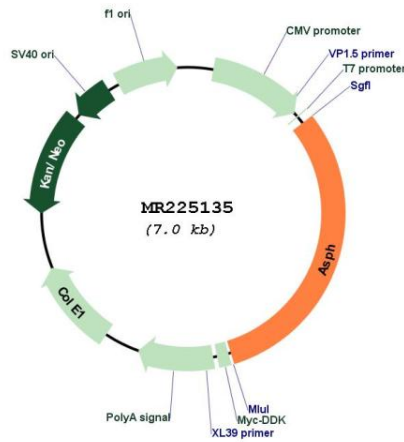
**Locus ID:** 65973

**Cytogenetics:** 4 A1

**MW:** 81.9 kDa

**Gene Summary:** Isoform 1: specifically hydroxylates an Asp or Asn residue in certain epidermal growth factor-like (EGF) domains of a number of proteins.[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MR225135