

ID Construct **13ABGM3C**

Customer **UNIVERSITÄT REGENSBURG, Jennifer Flechsler**

Name of the gene **Igni\_1263**

optimized for **Escherichia coli**

Upper sequence: as provided  
Lower sequence: as sequenced

05.07.2013 10:54:36

Sequence identity: 100%

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                                     GCTAGCCTGGCACGTGTTCCGTATA
                                     |||
TGCGGGGTTCTCATCATCATCATCATGGTATGGCTAGCCTGGCACGTGTTCCGTATA
1  -----+-----+-----+-----+-----+-----+-----+

AAGTTGCAGTTATTGGCACCGGTCGTGTTGGTGCAACCTTTGCATATACAATGGCAATTG
|||
AAGTTGCAGTTATTGGCACCGGTCGTGTTGGTGCAACCTTTGCATATACAATGGCAATTG
61 -----+-----+-----+-----+-----+-----+-----+

TTCCGGGTGTTGCACGTATGGTTCTGGTTGATGCAGTTCCGGGTCTGAGCAAAGGTGTTA
|||
TTCCGGGTGTTGCACGTATGGTTCTGGTTGATGCAGTTCCGGGTCTGAGCAAAGGTGTTA
121 -----+-----+-----+-----+-----+-----+-----+

TGGAAGATATTAACATGCCGCAGCAGTTTTTCGTCGTAGCATTGAGGTTGAAGCATATG
|||
TGGAAGATATTAACATGCCGCAGCAGTTTTTCGTCGTAGCATTGAGGTTGAAGCATATG
181 -----+-----+-----+-----+-----+-----+-----+

ATGATGTTAGCAAAGTGGAATGCCGATGCCATTGTTATTACCGCAGGTAAACCGCGTA
|||
ATGATGTTAGCAAAGTGGAATGCCGATGCCATTGTTATTACCGCAGGTAAACCGCGTA
241 -----+-----+-----+-----+-----+-----+-----+

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AAGCAGATATGAGCCGTCGTGATCTGGCAAAAGTTAATGCACAGATTATTCGCGATATCG  
 |||||  
 AAGCAGATATGAGCCGTCGTGATCTGGCAAAAGTTAATGCACAGATTATTCGCGATATCG  
 301 -----+-----+-----+-----+-----+-----+

GTGATAAACTGCGTGATCGTAATCCGGGTGCCTTTTATATGGTTATTACCAATCCGGTTG  
 |||||  
 GTGATAAACTGCGTGATCGTAATCCGGGTGCCTTTTATATGGTTATTACCAATCCGGTTG  
 361 -----+-----+-----+-----+-----+-----+

ATGTGATGACCATGATTCTGAGTGATGTGATTGGCAATAAAGGCACCGTTATTGGTACAG  
 |||||  
 ATGTGATGACCATGATTCTGAGTGATGTGATTGGCAATAAAGGCACCGTTATTGGTACAG  
 421 -----+-----+-----+-----+-----+-----+

GCACCAGCCTGGATACCTATCGTTTTCGTAGCGCAGTTAGCGAACTGCTGAATGAACCGA  
 |||||  
 GCACCAGCCTGGATACCTATCGTTTTCGTAGCGCAGTTAGCGAACTGCTGAATGAACCGA  
 481 -----+-----+-----+-----+-----+-----+

TTGCAGCAATTGATGGTTATGTTGTTGGTGAACATGGTGAAGAGGCATTTGTTGCATGGT  
 |||||  
 TTGCAGCAATTGATGGTTATGTTGTTGGTGAACATGGTGAAGAGGCATTTGTTGCATGGT  
 541 -----+-----+-----+-----+-----+-----+

CAACCGTTACCGTTAAAGGTGTTCCGATTGATGAGTATATCAAAGAGAAAGGTCTGGATC  
 |||||  
 CAACCGTTACCGTTAAAGGTGTTCCGATTGATGAGTATATCAAAGAGAAAGGTCTGGATC  
 601 -----+-----+-----+-----+-----+-----+

TGAGCCGTAGCCGTATTGAAGAATATGTTAAAGAAGTTGCAGCCACCATTATTGCAAAAC  
 |||||  
 TGAGCCGTAGCCGTATTGAAGAATATGTTAAAGAAGTTGCAGCCACCATTATTGCAAAAC  
 661 -----+-----+-----+-----+-----+-----+

AGGGTGCAACCATTGTTGGGGTCCGGCAGCAACCTTTCAAGAAATTGTTGTTAGCCATCTGG  
 |||||  
 AGGGTGCAACCATTGTTGGGGTCCGGCAGCAACCTTTCAAGAAATTGTTGTTAGCCATCTGG  
 721 -----+-----+-----+-----+-----+-----+-----+

CAAACGAAGGTCGTATTATTCCGGTTAGCGTTGTTCAAGAAGTTCCTGGCGTTGGTCGTG  
 |||  
 CAAACGAAGGTCGTATTATTCCGGTTAGCGTTGTTCAAGAAGTTCCTGGCGTTGGTCGTG  
 781 - - - - - + - - - - - + - - - - - + - - - - - + - - - - - + - - - - - +

TTGCAGTTAGCGTTCCGACCAAAATTAGCGGTCGTCTGGTTCCGCTGCCGCAGCTGCTGA  
 |||||  
 TTGCAGTTAGCGTTCCGACCAAAATTAGCGGTCGTCTGGTTCCGCTGCCGCAGCTGCTGA  
 841 - - - - - + - - - - - + - - - - - + - - - - - + - - - - - + - - - - - +

ACGAAGAAGAACGCGAACGTCTGAAACGTGCAGCCGAAGCAATTAAACGTGTTTATGAAG  
 ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||  
 ACGAAGAAGAACGCGAACGTCTGAAACGTGCAGCCGAAGCAATTAAACGTGTTTATGAAG  
 901 -----+-----+-----+-----+-----+-----+-----+

AAGCAGTGAGCAGCTAACCATGG  
 |||||  
 AAGCAGTGAGCAGCTAACCATGGAATTCGAAGCTTGATCCGGCTGCTAACAAAGCCCG  
 961 -----+-----+-----+-----+-----+-----