

ID Construct **12ABJHCC**  
 Customer **UNIVERSITÄT REGENSBURG, Jennifer Flechsler**  
 Name of the gene **Igni\_1058**  
 optimized for **Escherichia coli**  
 Upper sequence: as provided  
 Lower sequence: as sequenced

02.11.2012 09:48:21

Sequence identity: 100%

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                                     GGATCCATGCTGGGTGGTGCACTGG
                                     |||
GGGATCTGTACGACGATGACGATAAGGATCGATGGGGATCCATGCTGGGTGGTGCACTGG
1  -----+-----+-----+-----+-----+-----+
                                     |||
CACTGTATAGCCTGCTGCGTCTGTGGACCGCAGATCAGGCACTGCAAGAAGTTCGTAAAG
|||
CACTGTATAGCCTGCTGCGTCTGTGGACCGCAGATCAGGCACTGCAAGAAGTTCGTAAAG
61 -----+-----+-----+-----+-----+-----+
                                     |||
TTCTGGTTGTTGGTGCCGGTGTTATGGGTCATGGTATTGCACAGGTTGCAGCAATGAGCG
|||
TTCTGGTTGTTGGTGCCGGTGTTATGGGTCATGGTATTGCACAGGTTGCAGCAATGAGCG
121 -----+-----+-----+-----+-----+-----+
                                     |||
GTCTGAATGTTTCGTATGATTGATATTAAACAAGAATTTCTGGATCGCGCAATGGAACGCA
|||
GTCTGAATGTTTCGTATGATTGATATTAAACAAGAATTTCTGGATCGCGCAATGGAACGCA
181 -----+-----+-----+-----+-----+-----+
                                     |||
TTAAAGAAAGCCTGGAAAACTGTATGCCAAAGGCAAACCTGAAAGAACCGCCTGAAGAAG
|||
TTAAAGAAAGCCTGGAAAACTGTATGCCAAAGGCAAACCTGAAAGAACCGCCTGAAGAAG
241 -----+-----+-----+-----+-----+-----+

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TTCTGAAACGTATTGAAACAATGGTTGCCAATCCGGATGATGAAAGCAGCTATGCCGAAG  
 |||||  
 TTCTGAAACGTATTGAAACAATGGTTGCCAATCCGGATGATGAAAGCAGCTATGCCGAAG  
 301 -----+-----+-----+-----+-----+-----+

CAGCAAAAGATGTTGATTTTGTTATTGAAGCCGTGCCGGA AAAACTGGA ACTGAAACGTG  
 |||||  
 CAGCAAAAGATGTTGATTTTGTTATTGAAGCCGTGCCGGA AAAACTGGA ACTGAAACGTG  
 361 -----+-----+-----+-----+-----+-----+

CAGTTTTTAGCGTGCTGGATAAATATGCACCGCCTCATGCAATTCTGGCAAGCAATACCA  
 |||||  
 CAGTTTTTAGCGTGCTGGATAAATATGCACCGCCTCATGCAATTCTGGCAAGCAATACCA  
 421 -----+-----+-----+-----+-----+-----+

GCAGCATTCCGATTACCGAAATTGCAAAAGCAACCAAACGTCCGGATAAAGTTGTTGGCA  
 |||||  
 GCAGCATTCCGATTACCGAAATTGCAAAAGCAACCAAACGTCCGGATAAAGTTGTTGGCA  
 481 -----+-----+-----+-----+-----+-----+

TGCATTTTTTCAATCCGCCTGTTATTCTGAAACTGGTTGAAGTTGTTTCGTGGCAAAGAAA  
 |||||  
 TGCATTTTTTCAATCCGCCTGTTATTCTGAAACTGGTTGAAGTTGTTTCGTGGCAAAGAAA  
 541 -----+-----+-----+-----+-----+-----+

CCAGTGATGAAACCGTGAAAATTACCGTTGAACTGGCCAAAAAAATGGGCAAAGTTCCGA  
 |||||  
 CCAGTGATGAAACCGTGAAAATTACCGTTGAACTGGCCAAAAAAATGGGCAAAGTTCCGA  
 601 -----+-----+-----+-----+-----+-----+

TTGTGGTGAACAAAGATGTTCCGGGTTTTATTGTGAATCGTATCATGGCACGTTTTCTGA  
 |||||  
 TTGTGGTGAACAAAGATGTTCCGGGTTTTATTGTGAATCGTATCATGGCACGTTTTCTGA  
 661 -----+-----+-----+-----+-----+-----+

ATGAAGGTTGTTGGCTGGTTGAACGTGGTGTGTTTATACCAAAGAACAGGTTGATGCAGCAC  
 ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||  
 ATGAAGGTTGTTGGCTGGTTGAACGTGGTGTGTTTATACCAAAGAACAGGTTGATGCAGCAC  
 721 -----+-----+-----+-----+-----+-----+-----+

TGCGCTATAAACTGAATTTTCCGATGGGTGCATTTGAGCTGGCAGATTATGTTGGTCTGG  
 ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||  
 TGCGCTATAAACTGAATTTTCCGATGGGTGCATTTGAGCTGGCAGATTATGTTGGTCTGG  
 781 -----+-----+-----+-----+-----+-----+-----+

ATGTTCTGGTTCATCTGATGGAAGCAATGAAAGAACGTGGTATGAATCTGACCATTTGTC  
 ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||  
 ATGTTCTGGTTCATCTGATGGAAGCAATGAAAGAACGTGGTATGAATCTGACCATTTGTC  
 841 -----+-----+-----+-----+-----+-----+-----+

CGCTGTTCAAAAACTGCTGGAAGAAGGTAACTGGGCGTTAAAAGCGGTGAAGGCTTTT  
 ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||  
 CGCTGTTCAAAAACTGCTGGAAGAAGGTAACTGGGCGTTAAAAGCGGTGAAGGCTTTT  
 901 -----+-----+-----+-----+-----+-----+-----+

ACAAATATCCGGCACCGGGCAAGTTCAAAAAACCGGTTGTTAAAGCAAGCGCAGCAGAAG  
 ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||  
 ACAAATATCCGGCACCGGGCAAGTTCAAAAAACCGGTTGTTAAAGCAAGCGCAGCAGAAG  
 961 -----+-----+-----+-----+-----+-----+-----+

GTGTTGATTACATTAGCATTGTTGATACCGCAGTTAATGAAGGTGCATGGCTGGTAGAAA  
 ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||  
 GTGTTGATTACATTAGCATTGTTGATACCGCAGTTAATGAAGGTGCATGGCTGGTAGAAA  
 1021 -----+-----+-----+-----+-----+-----+-----+

ATGGTGTTGCAGGTCCGGAAGAAGTTGATACCGCCACCGTTCTGGGTCTGAATCTGCCGA  
 ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||  
 ATGGTGTTGCAGGTCCGGAAGAAGTTGATACCGCCACCGTTCTGGGTCTGAATCTGCCGA  
 1081 -----+-----+-----+-----+-----+-----+-----+

TGGGTATCCTGAAACTGGGTGATAGCCTGGGTCTGGATAATGTTCTGGATAGCATCAACG  
 |||||  
 TGGGTATCCTGAAACTGGGTGATAGCCTGGGTCTGGATAATGTTCTGGATAGCATCAACG  
 1141 -----+-----+-----+-----+-----+-----+

AAAAAAAAGAAAAATATGGCCTGGAAGATTATCGTCCGGTTCAGCTGCTGGAAAATATGG  
 |||||  
 AAAAAAAGAAAAATATGGCCTGGAAGATTATCGTCCGGTTCAGCTGCTGGAAAATATGG  
 1201 -----+-----+-----+-----+-----+-----+

TTAAGGAAGGTAAATGCGGAGTAAAATGCGGCAAAGGTTTTTATGAATATGAAGTGAGCG  
 |||||  
 TTAAGGAAGGTAAATGCGGAGTAAAATGCGGCAAAGGTTTTTATGAATATGAAGTGAGCG  
 1261 -----+-----+-----+-----+-----+-----+

AAGAAGATCTGGGCGAAATCAAAGTTCGTCTGAAGGTGAAGCACTGTGGATTATTCTGA  
 |||||  
 AAGAAGATCTGGGCGAAATCAAAGTTCGTCTGAAGGTGAAGCACTGTGGATTATTCTGA  
 1321 -----+-----+-----+-----+-----+-----+

ATCGTCCGAAACAGCGTAATGCACTGACACCGGAAATGCTGCTGAAAATGGCCGAAGTTG  
 |||||  
 ATCGTCCGAAACAGCGTAATGCACTGACACCGGAAATGCTGCTGAAAATGGCCGAAGTTG  
 1381 -----+-----+-----+-----+-----+-----+

CACAGAAAGCATGTGAAGATGAAGGTGTTTCGTGCAATTGTTCTGTATGGTGGTGATGTTT  
 |||||  
 CACAGAAAGCATGTGAAGATGAAGGTGTTTCGTGCAATTGTTCTGTATGGTGGTGATGTTT  
 1441 -----+-----+-----+-----+-----+-----+

TTAGCGCAGGTTTTGATCTGACCGTGATGAAAGATGTAGATCCGACCAAAGCACCGGAAA  
 |||||  
 TTAGCGCAGGTTTTGATCTGACCGTGATGAAAGATGTAGATCCGACCAAAGCACCGGAAA  
 1501 -----+-----+-----+-----+-----+-----+

CCGTTGCACGTCCTTTCAAAAACTGGCACTGGCACTGGAAGGTTGTCCGAAACCGGTTA  
|||||  
CCGTTGCACGTCCTTTCAAAAACTGGCACTGGCACTGGAAGGTTGTCCGAAACCGGTTA  
1561 -----+-----+-----+-----+-----+-----+

TTGCATATATTACCGGTTATGCACTGGGTGGTGGTCTGGAAGTTGCAATGATGGCAGATC  
|||||  
TTGCATATATTACCGGTTATGCACTGGGTGGTGGTCTGGAAGTTGCAATGATGGCAGATC  
1621 -----+-----+-----+-----+-----+-----+

TGCGTCTGGCAACCGAAGATAGCCTGCTGGGTCAGCCGGAATTAATGTTGGTATTATGC  
|||||  
TGCGTCTGGCAACCGAAGATAGCCTGCTGGGTCAGCCGGAATTAATGTTGGTATTATGC  
1681 -----+-----+-----+-----+-----+-----+

CTGGTGGTGGTGGCACCCAGCGTCTGCCTCGTCTGGTTGGTCTGGGTCGTGCAATGCAGC  
|||||  
CTGGTGGTGGTGGCACCCAGCGTCTGCCTCGTCTGGTTGGTCTGGGTCGTGCAATGCAGC  
1741 -----+-----+-----+-----+-----+-----+

TGGTTCTGCTGGGTGATCCGATTGATGCAGTTGAAGCAGAAAAATGGGGTCTGGTTAATT  
|||||  
TGGTTCTGCTGGGTGATCCGATTGATGCAGTTGAAGCAGAAAAATGGGGTCTGGTTAATT  
1801 -----+-----+-----+-----+-----+-----+

GGGCAGTGCCGAAACGTATTGCAGATAGCGAAGTTCGTCTGCTGGTTAAAAAACTGAGCA  
|||||  
GGGCAGTGCCGAAACGTATTGCAGATAGCGAAGTTCGTCTGCTGGTTAAAAAACTGAGCA  
1861 -----+-----+-----+-----+-----+-----+

GCAAACCGAAAGAAGCACTGGCCCTGGCAAAAAAAGCAGTTCGTGTTGCACAAGAGGTTTC  
|||||  
GCAAACCGAAAGAAGCACTGGCCCTGGCAAAAAAAGCAGTTCGTGTTGCACAAGAGGTTTC  
1921 -----+-----+-----+-----+-----+-----+

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CGCTGATTGATGGTCTGGAAATGGAAGCCGAAGCATTTGCACGTGCACTGGCCACCGAAA
|||||||||||||||||||||||||||||||||||||||||||||||||||||||||
CGCTGATTGATGGTCTGGAAATGGAAGCCGAAGCATTTGCACGTGCACTGGCCACCGAAA
1981 -----+-----+-----+-----+-----+-----+
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ATGCCAAAGAAGGTATTGCAGCATTTCTGGAAAAACGCAAACCGAATTTCAAATAAGAAT
|||||||||||||||||||||||||||||||||||||||||||||||||||||||||
ATGCCAAAGAAGGTATTGCAGCATTTCTGGAAAAACGCAAACCGAATTTCAAATAAGAAT
2041 -----+-----+-----+-----+-----+-----+
```

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TC
||
TCGAAGCTTGATCCGGCTGCTAACAAAGCCCGAAAGG
2101 -----+-----+-----+-----
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