

ID Construct **12ABHCOC**
 Customer **UNIVERSITÄT REGENSBURG, Jennifer Flechsler**
 Name of the gene **Igni_0341**
 optimized for **Escherichia coli**
 Upper sequence: as provided
 Lower sequence: as sequenced

24.10.2012 09:32:43

Sequence identity: 100%

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                                     GGATCCCATATGGTGAAAGTTCCGA
                                     |||
GGGATCTGTACGACGATGACGATAAGGATCGATGGGGATCCCATATGGTGAAAGTTCCGA
1  -----+-----+-----+-----+-----+-----+-----+

AACTGATGGCAACCCAGCATCCGGATAGCACCGTTGTTCTGATGCCGCAGGATGAAGTTG
|||
AACTGATGGCAACCCAGCATCCGGATAGCACCGTTGTTCTGATGCCGCAGGATGAAGTTG
61 -----+-----+-----+-----+-----+-----+-----+

AAGAGGCAATTCAGGATGTTCTGCCGCTGGATCAGGGTGGTCGTGGTTGTGATGAAAAAA
|||
AAGAGGCAATTCAGGATGTTCTGCCGCTGGATCAGGGTGGTCGTGGTTGTGATGAAAAAA
121 -----+-----+-----+-----+-----+-----+-----+

TGGTTGATTATGAAGGTAAAGCCACCCCGTATAATCAGATGCGTGATATTATTGAAGAGG
|||
TGGTTGATTATGAAGGTAAAGCCACCCCGTATAATCAGATGCGTGATATTATTGAAGAGG
181 -----+-----+-----+-----+-----+-----+-----+

TGCGCAAATATGATGTTGTTCCGGGTGAAGATTTTCTGATTACACCGCGTGTTCCGAATC
|||
TGCGCAAATATGATGTTGTTCCGGGTGAAGATTTTCTGATTACACCGCGTGTTCCGAATC
241 -----+-----+-----+-----+-----+-----+-----+

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CGAAACTGGAAGATAAAGATCGTCATCTGCTGGCAATTACCGCAGCAGTTACCGCAAATA
 ||
 CGAAACTGGAAGATAAAGATCGTCATCTGCTGGCAATTACCGCAGCAGTTACCGCAAATA
 301 -----+-----+-----+-----+-----+-----+

TGTATAGCCAGATGTATTTCAACACCGATGCCATCAAATATATCATTCTGCCGATGAGCA
 ||
 TGTATAGCCAGATGTATTTCAACACCGATGCCATCAAATATATCATTCTGCCGATGAGCA
 361 -----+-----+-----+-----+-----+-----+

CCAGCACCTGGAAGTGGCAGAAGTTCAGCGTCGTATTCTGAAAGTTGAACGTCTGGTTA
 ||
 CCAGCACCTGGAAGTGGCAGAAGTTCAGCGTCGTATTCTGAAAGTTGAACGTCTGGTTA
 421 -----+-----+-----+-----+-----+-----+

GCGAAGAATTTAGCCTGCGTATTGAAGAATGGATTAAACTGATTCCGCTGTTCGAAACCG
 ||
 GCGAAGAATTTAGCCTGCGTATTGAAGAATGGATTAAACTGATTCCGCTGTTCGAAACCG
 481 -----+-----+-----+-----+-----+-----+

CAGAAAGCCACATGCATATTGATGAAATTGTTGAAGGTCTGCGCATTGCCTTCATTAAAG
 ||
 CAGAAAGCCACATGCATATTGATGAAATTGTTGAAGGTCTGCGCATTGCCTTCATTAAAG
 541 -----+-----+-----+-----+-----+-----+

AAATTGGCATGTTTGAGAACGAATTTTCGCATCTTTATGGGCAAAAGCGATAGCGGTATTC
 ||
 AAATTGGCATGTTTGAGAACGAATTTTCGCATCTTTATGGGCAAAAGCGATAGCGGTATTC
 601 -----+-----+-----+-----+-----+-----+

ATAGCGGTCATATTGCAAGCAGCATTGGTGTTCGTATGGGTCTGCTGAAACTGTGGAATT
 ||
 ATAGCGGTCATATTGCAAGCAGCATTGGTGTTCGTATGGGTCTGCTGAAACTGTGGAATT
 661 -----+-----+-----+-----+-----+-----+

GGCAGAAAGATACCATGTTCAAAGTGTATCCGATTATCGGTATGGGTAAACCGCCTCTGC
|||||
GGCAGAAAGATACCATGTTCAAAGTGTATCCGATTATCGGTATGGGTAAACCGCCTCTGC
721 -----+-----+-----+-----+-----+-----+

GTGGTCACATGGCAGAATGGGTTATTGAAGATTGGGTTGAAGCATGGCGTGGTTATTATA
|||||
GTGGTCACATGGCAGAATGGGTTATTGAAGATTGGGTTGAAGCATGGCGTGGTTATTATA
781 -----+-----+-----+-----+-----+-----+

CCGCAACCGTTCAGAGCGCACTGCGTTTTAATACCGATCGTAAAGATTATGTGCATACCA
|||||
CCGCAACCGTTCAGAGCGCACTGCGTTTTAATACCGATCGTAAAGATTATGTGCATACCA
841 -----+-----+-----+-----+-----+-----+

TTACCGTGGTGACCAAAAATAGCGGTAAACAGCCTCCGCTGGAAGTCTGGGTTATGCAA
|||||
TTACCGTGGTGACCAAAAATAGCGGTAAACAGCCTCCGCTGGAAGTCTGGGTTATGCAA
901 -----+-----+-----+-----+-----+-----+

AAGAAATGGTTAATGTTGCATGGCGTGCAAGCGAAGTTTATCTGAGCCGTCTGGAACGTC
|||||
AAGAAATGGTTAATGTTGCATGGCGTGCAAGCGAAGTTTATCTGAGCCGTCTGGAACGTC
961 -----+-----+-----+-----+-----+-----+

TGGCAGATATGATTAGCTTTATGGCCAAATTTGTTACCCGTACCCGTGCACGTCTGGATA
|||||
TGGCAGATATGATTAGCTTTATGGCCAAATTTGTTACCCGTACCCGTGCACGTCTGGATA
1021 -----+-----+-----+-----+-----+-----+

GCTATAAACGTCGTGCAAAAACCGGTAAAGAAATGCCTCGTGCAATTCGTTTTTGTGCAA
|||||
GCTATAAACGTCGTGCAAAAACCGGTAAAGAAATGCCTCGTGCAATTCGTTTTTGTGCAA
1081 -----+-----+-----+-----+-----+-----+

GCCTGTATAGCATGGGTCTGGGTCCGACCCTGATTGGTGCCGGTGTTATTGAAGAACTGG
 ||
 GCCTGTATAGCATGGGTCTGGGTCCGACCCTGATTGGTGCCGGTGTTATTGAAGAACTGG
 1141 -----+-----+-----+-----+-----+-----+

CAAGCGGCACCGCAGAAAACTGGAACATCTGCTGAAATTTGTTCCGCTGCTGCCGAAAG
 ||
 CAAGCGGCACCGCAGAAAACTGGAACATCTGCTGAAATTTGTTCCGCTGCTGCCGAAAG
 1201 -----+-----+-----+-----+-----+-----+

ATTTTGCATTTGATTATGCATTCACCGATCTGGAAGTGTTCAAACGTTATGTGGATGAAA
 ||
 ATTTTGCATTTGATTATGCATTCACCGATCTGGAAGTGTTCAAACGTTATGTGGATGAAA
 1261 -----+-----+-----+-----+-----+-----+

AAACCTTTGAAATTATCAAAAAAGATGTGGATGTGGTGAAAGAATACTTCGCCAATGTTG
 ||
 AAACCTTTGAAATTATCAAAAAAGATGTGGATGTGGTGAAAGAATACTTCGCCAATGTTG
 1321 -----+-----+-----+-----+-----+-----+

AACCGCCTAAAAGCCCTCCGGAAGGTTATTTTGAAAACTGCGCGAACTGCGTGGTGCAC
 ||
 AACCGCCTAAAAGCCCTCCGGAAGGTTATTTTGAAAACTGCGCGAACTGCGTGGTGCAC
 1381 -----+-----+-----+-----+-----+-----+

TGGATGAAGCCGAAGTTAGCCGTGCAAAAGCAATTGTTATGGAAGTGGCCGAAATGCGTG
 ||
 TGGATGAAGCCGAAGTTAGCCGTGCAAAAGCAATTGTTATGGAAGTGGCCGAAATGCGTG
 1441 -----+-----+-----+-----+-----+-----+

GTTTTCTGGGTTAACCATGG
 ||||||||||||||||
 GTTTTCTGGGTTAACCATGGAATTCGAAGCTTGATCCGGCTGCTAACAAAGCCCG
 1501 -----+-----+-----+-----+-----+-----