

ID Construct **13ABGMXC**
 Customer **UNIVERSITÄT REGENSBURG, Jennifer Flechsler**
 Name of the gene **Igni_0475**
 optimized for **Escherichia coli**
 Upper sequence: as provided
 Lower sequence: as sequenced

19.07.2013 10:55:53

Sequence identity: 100%

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                                     GCTAGCGTTCTGAGCGGTCGTGCAG
                                     |||
TGCGGGGTTCTCATCATCATCATCATGGTATGGCTAGCGTTCTGAGCGGTCGTGCAG
1  -----+-----+-----+-----+-----+-----+-----+

TTGTTTTTTGAACGTTATAGCCGTGCAACACCGCTGGGTGCATATCTGGAAGAGGGTCGTC
|||
TTGTTTTTTGAACGTTATAGCCGTGCAACACCGCTGGGTGCATATCTGGAAGAGGGTCGTC
61 -----+-----+-----+-----+-----+-----+-----+

GTTTTTCGTGAAGAAGGTTTTATTCGTACCGATTATCCGCCTAAACGTGATGAAGTTCTGT
|||
GTTTTTCGTGAAGAAGGTTTTATTCGTACCGATTATCCGCCTAAACGTGATGAAGTTCTGT
121 -----+-----+-----+-----+-----+-----+-----+

GGAATCCGAAAATTATGCGTATGCCTCGTGAAGAACTGGAAAAAATCAAACCCAGCGTC
|||
GGAATCCGAAAATTATGCGTATGCCTCGTGAAGAACTGGAAAAAATCAAACCCAGCGTC
181 -----+-----+-----+-----+-----+-----+-----+

TGAAAGCCATTGTAAATGGGCATGGGAACACAGCGAATTCTATCGCAAATTTTGAAAA
|||
TGAAAGCCATTGTAAATGGGCATGGGAACACAGCGAATTCTATCGCAAATTTTGAAAA
241 -----+-----+-----+-----+-----+-----+-----+

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GCAAAGGCTTTACCCGGACATGATTAAAACCCATGAAGATGTTGTTAAAATCCCGGTGC
 ||
 GCAAAGGCTTTACCCGGACATGATTAAAACCCATGAAGATGTTGTTAAAATCCCGGTGC
 301 -----+-----+-----+-----+-----+-----+

TGACCAAAAAAGATCTGCGTGCCGATCTGCAGAAAAATCCGCCTTATGGCACCATTATGG
 ||
 TGACCAAAAAAGATCTGCGTGCCGATCTGCAGAAAAATCCGCCTTATGGCACCATTATGG
 361 -----+-----+-----+-----+-----+-----+

TTCCGGAAGTGGCCAAATATATCCATTTTGTGTTGGTGCAACCAGCGGTAGCACCGGTATGC
 ||
 TTCCGGAAGTGGCCAAATATATCCATTTTGTGTTGGTGCAACCAGCGGTAGCACCGGTATGC
 421 -----+-----+-----+-----+-----+-----+

CGACCTTTCAGGGTTGGGGTCGTGTTGAACTGGATTATTTTGAAGAACAGCAGGCACGTT
 ||
 CGACCTTTCAGGGTTGGGGTCGTGTTGAACTGGATTATTTTGAAGAACAGCAGGCACGTT
 481 -----+-----+-----+-----+-----+-----+

ATCTGTGGACCTTTGCCGGTGTTAAACCGGGTGTTGTTTATGCCAATTATCTGAATATGA
 ||
 ATCTGTGGACCTTTGCCGGTGTTAAACCGGGTGTTGTTTATGCCAATTATCTGAATATGA
 541 -----+-----+-----+-----+-----+-----+

GCGGCTTTTATAGCTGGGGTCCGCCTCTGGTTGAAACCGCAATGTGGCGTTGTGGTGCAA
 ||
 GCGGCTTTTATAGCTGGGGTCCGCCTCTGGTTGAAACCGCAATGTGGCGTTGTGGTGCAA
 601 -----+-----+-----+-----+-----+-----+

CCGCAATTGCCGGTGGTGGTGAAACCTTTTTTACCTGGAAAGATCGTCATATGCTGATTA
 ||
 CCGCAATTGCCGGTGGTGGTGAAACCTTTTTTACCTGGAAAGATCGTCATATGCTGATTA
 661 -----+-----+-----+-----+-----+-----+

TGAAACTGTGGAAAGTTGATGTTTTTGAACCAACCCCGTGGCTGCATCGTTGGATTGGTG
 ||
 TGAAACTGTGGAAAGTTGATGTTTTTGAACCAACCCCGTGGCTGCATCGTTGGATTGGTG
 721 -----+-----+-----+-----+-----+-----+

AACAGGCAAAACTGGAAGGTTGGGTTACCCCGTTTAAAGTTCTGCTGCTGCATGGTGGTG
 ||
 AACAGGCAAAACTGGAAGGTTGGGTTACCCCGTTTAAAGTTCTGCTGCTGCATGGTGGTG
 781 -----+-----+-----+-----+-----+-----+

CAGCAGCCGAAAAAACCAAAGAAAACTGATGGAAGTTCACCCGAATGTCGAAAAAGTTA
 ||
 CAGCAGCCGAAAAAACCAAAGAAAACTGATGGAAGTTCACCCGAATGTCGAAAAAGTTA
 841 -----+-----+-----+-----+-----+-----+

TTAGCGTTTGGGGCACCACCGATGGTCATATGGCAATTGAACCGCCTGATGCACCGGGTA
 ||
 TTAGCGTTTGGGGCACCACCGATGGTCATATGGCAATTGAACCGCCTGATGCACCGGGTA
 901 -----+-----+-----+-----+-----+-----+

CACTGGTTTTTTTGGGAAGATACCCAGATTTTCGATATTGTTGTTCCGGGTAGCTATGAAG
 ||
 CACTGGTTTTTTTGGGAAGATACCCAGATTTTCGATATTGTTGTTCCGGGTAGCTATGAAG
 961 -----+-----+-----+-----+-----+-----+

AACGTCCGGAAGGTGAACCGGCAGGTCAGGGTGAACGTGGTGAACCTGATTGCAACCCTGC
 ||
 AACGTCCGGAAGGTGAACCGGCAGGTCAGGGTGAACGTGGTGAACCTGATTGCAACCCTGC
 1021 -----+-----+-----+-----+-----+-----+

TGACCCACTATACCATGCCGCTGATTTCGTTATAGCCTGGGTGATTATGTGAAAAACGAAT
 ||
 TGACCCACTATACCATGCCGCTGATTTCGTTATAGCCTGGGTGATTATGTGAAAAACGAAT
 1081 -----+-----+-----+-----+-----+-----+

TTATCTGTGATCCGACACCGGAACTGGGTATTACCCATTGTCGTTTTGCAGAACTGATTC
 |||||
 TTATCTGTGATCCGACACCGGAACTGGGTATTACCCATTGTCGTTTTGCAGAACTGATTC
 1141 -----+-----+-----+-----+-----+-----+

CGGGTCGTGTGGAATGGATGTTTAAAGTTAAAGGCAAACCTGCTGTTTCCGATCGTTGTTG
 |||||
 CGGGTCGTGTGGAATGGATGTTTAAAGTTAAAGGCAAACCTGCTGTTTCCGATCGTTGTTG
 1201 -----+-----+-----+-----+-----+-----+

AAAATGCAGTTAGCCAGATTCCGGATACCACCGGTGCATATAATATTGTGGTGTATGATG
 |||||
 AAAATGCAGTTAGCCAGATTCCGGATACCACCGGTGCATATAATATTGTGGTGTATGATG
 1261 -----+-----+-----+-----+-----+-----+

ATAATATGGATAAACTGAAAATCAAAGTGGAACCCGCAAACCGATTCCGCCTCCGCCTG
 |||||
 ATAATATGGATAAACTGAAAATCAAAGTGGAACCCGCAAACCGATTCCGCCTCCGCCTG
 1321 -----+-----+-----+-----+-----+-----+

AATATGATAAAGAAGCACGCGAAATTATTGCACGTGAACTGGGTCTGAGTCCGGAAGATG
 |||||
 AATATGATAAAGAAGCACGCGAAATTATTGCACGTGAACTGGGTCTGAGTCCGGAAGATG
 1381 -----+-----+-----+-----+-----+-----+

TTGAAATTGAATGGATTCGTCCGGGTGAATCAGTTTGGAAAGGTTATAAACTGCAGGTCT
 |||||
 TTGAAATTGAATGGATTCGTCCGGGTGAATCAGTTTGGAAAGGTTATAAACTGCAGGTCT
 1441 -----+-----+-----+-----+-----+-----+

TTCTGGATGAACGCAAAAAATGACCATGG
 |||||
 TTCTGGATGAACGCAAAAAATGACCATGGAATTCGAAGCTTGATCCGGCTGCTAACAAAG
 1501 -----+-----+-----+-----+-----+-----+

CCCG

1561 ----