

ID Construct **13ABGMWC**

Customer **UNIVERSITÄT REGENSBURG, Jennifer Flechsler**

Name of the gene **Igni_0475**

optimized for **Escherichia coli**

Upper sequence: as provided
Lower sequence: as sequenced

15.07.2013 08:57:16

Sequence identity: 100%

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                                GCTAGCGTTCTGAGCGGTCG
                                |||||
CACTATAGGGCGAATTGAAGGAAGGCCGTCAAGGCCGCATGCTAGCGTTCTGAGCGGTCG
1  -----+-----+-----+-----+-----+-----+-----+

TGCAGTTGTTTTTGAACGTTATAGCCGTGCAACACCGCTGGGTGCATATCTGGAAGAGGG
|||||
TGCAGTTGTTTTTGAACGTTATAGCCGTGCAACACCGCTGGGTGCATATCTGGAAGAGGG
61 -----+-----+-----+-----+-----+-----+-----+

TCGTCGTTTTTCGTGAAGAAGGTTTTATTCGTACCGATTATCCGCCTAAACGTGATGAAGT
|||||
TCGTCGTTTTTCGTGAAGAAGGTTTTATTCGTACCGATTATCCGCCTAAACGTGATGAAGT
121 -----+-----+-----+-----+-----+-----+-----+

TCTGTGGAATCCGAAAATTATGCGTATGCCTCGTGAAGAACTGGAAAAAATCAAACCCA
|||||
TCTGTGGAATCCGAAAATTATGCGTATGCCTCGTGAAGAACTGGAAAAAATCAAACCCA
181 -----+-----+-----+-----+-----+-----+-----+

GCGTCTGAAAGCCATTGTAAATGGGCATGGGAACACAGCGAATTCTATCGCAAATTTTG
|||||
GCGTCTGAAAGCCATTGTAAATGGGCATGGGAACACAGCGAATTCTATCGCAAATTTTG
241 -----+-----+-----+-----+-----+-----+-----+

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GAAAAGCAAAGGCTTTACCCGGACATGATTAAAACCCATGAAGATGTTGTTAAAATCCC
 |||||
 GAAAAGCAAAGGCTTTACCCGGACATGATTAAAACCCATGAAGATGTTGTTAAAATCCC
 301 -----+-----+-----+-----+-----+-----+

GGTGCTGACCAAAAAAGATCTGCGTGCCGATCTGCAGAAAAATCCGCCTTATGGCACCAT
 |||||
 GGTGCTGACCAAAAAAGATCTGCGTGCCGATCTGCAGAAAAATCCGCCTTATGGCACCAT
 361 -----+-----+-----+-----+-----+-----+

TATGGTTCCGGAAGTGGCCAAATATATCCATTTTGTGGTGCAACCAGCGGTAGCACCGG
 |||||
 TATGGTTCCGGAAGTGGCCAAATATATCCATTTTGTGGTGCAACCAGCGGTAGCACCGG
 421 -----+-----+-----+-----+-----+-----+

TATGCCGACCTTTCAGGGTTGGGGTCGTGTTGAACTGGATTATTTTGAAGAACAGCAGGC
 |||||
 TATGCCGACCTTTCAGGGTTGGGGTCGTGTTGAACTGGATTATTTTGAAGAACAGCAGGC
 481 -----+-----+-----+-----+-----+-----+

ACGTTATCTGTGGACCTTTGCCGGTGTTAAACCGGGTGTTGTTTATGCCAATTATCTGAA
 |||||
 ACGTTATCTGTGGACCTTTGCCGGTGTTAAACCGGGTGTTGTTTATGCCAATTATCTGAA
 541 -----+-----+-----+-----+-----+-----+

TATGAGCGGCTTTTATAGCTGGGGTCCGCCTCTGGTTGAAACCGCAATGTGGCGTTGTGG
 |||||
 TATGAGCGGCTTTTATAGCTGGGGTCCGCCTCTGGTTGAAACCGCAATGTGGCGTTGTGG
 601 -----+-----+-----+-----+-----+-----+

TGCAACCGCAATTGCCGGTGGTGGTGAACCTTTTTTACCTGGAAAGATCGTCATATGCT
 |||||
 TGCAACCGCAATTGCCGGTGGTGGTGAACCTTTTTTACCTGGAAAGATCGTCATATGCT
 661 -----+-----+-----+-----+-----+-----+

GATTATGAAACTGTGGAAAGTTGATGTTTTTGAACCAACCCCGTGGCTGCATCGTTGGAT
 ||
 GATTATGAAACTGTGGAAAGTTGATGTTTTTGAACCAACCCCGTGGCTGCATCGTTGGAT
 721 -----+-----+-----+-----+-----+-----+

TGGTGAACAGGCAAAAGTTGGGTTACCCGTTTAAAGTTCTGCTGCTGCATGG
 ||
 TGGTGAACAGGCAAAAGTTGGGTTACCCGTTTAAAGTTCTGCTGCTGCATGG
 781 -----+-----+-----+-----+-----+-----+

TGGTGCAGCAGCCGAAAAAACCAAAGAAAACTGATGGAAGTTCACCCGAATGTCGAAAA
 ||
 TGGTGCAGCAGCCGAAAAAACCAAAGAAAACTGATGGAAGTTCACCCGAATGTCGAAAA
 841 -----+-----+-----+-----+-----+-----+

AGTTATTAGCGTTTGGGGCACCACCGATGGTCATATGGCAATTGAACCGCCTGATGCACC
 ||
 AGTTATTAGCGTTTGGGGCACCACCGATGGTCATATGGCAATTGAACCGCCTGATGCACC
 901 -----+-----+-----+-----+-----+-----+

GGGTACACTGGTTTTTTGGGAAGATACCCAGATTTTCGATATTGTTGTTCCGGGTAGCTA
 ||
 GGGTACACTGGTTTTTTGGGAAGATACCCAGATTTTCGATATTGTTGTTCCGGGTAGCTA
 961 -----+-----+-----+-----+-----+-----+

TGAAGAACGTCCGGAAGGTGAACCGGCAGGTCAGGGTGAACGTGGTGAACGTGATTGCAAC
 ||
 TGAAGAACGTCCGGAAGGTGAACCGGCAGGTCAGGGTGAACGTGGTGAACGTGATTGCAAC
 1021 -----+-----+-----+-----+-----+-----+

CCTGCTGACCCACTATACCATGCCGCTGATTTCGTTATAGCCTGGGTGATTATGTGAAAAA
 ||
 CCTGCTGACCCACTATACCATGCCGCTGATTTCGTTATAGCCTGGGTGATTATGTGAAAAA
 1081 -----+-----+-----+-----+-----+-----+

CGAATTTATCTGTGATCCGACACCGGAACTGGGTATTACCCATTGTCGTTTTGCAGAACT
 |||||
 CGAATTTATCTGTGATCCGACACCGGAACTGGGTATTACCCATTGTCGTTTTGCAGAACT
 1141 -----+-----+-----+-----+-----+-----+

GATTCCGGGTCGTGTGGAATGGATGTTTAAAGTTAAAGGCAAACCTGCTGTTTCCGATCGT
 |||||
 GATTCCGGGTCGTGTGGAATGGATGTTTAAAGTTAAAGGCAAACCTGCTGTTTCCGATCGT
 1201 -----+-----+-----+-----+-----+-----+

TGTTGAAAATGCAGTTAGCCAGATTCCGGATACCACCGGTGCATATAATATTGTGGTGTA
 |||||
 TGTTGAAAATGCAGTTAGCCAGATTCCGGATACCACCGGTGCATATAATATTGTGGTGTA
 1261 -----+-----+-----+-----+-----+-----+

TGATGATAATATGGATAAACTGAAAATCAAAGTGGAACCCGCAAACCGATTCCGCCTCC
 |||||
 TGATGATAATATGGATAAACTGAAAATCAAAGTGGAACCCGCAAACCGATTCCGCCTCC
 1321 -----+-----+-----+-----+-----+-----+

GCCTGAATATGATAAAGAAGCACGCGAAATTATTGCACGTGAACTGGGTCTGAGTCCGGA
 |||||
 GCCTGAATATGATAAAGAAGCACGCGAAATTATTGCACGTGAACTGGGTCTGAGTCCGGA
 1381 -----+-----+-----+-----+-----+-----+

AGATGTTGAAATTGAATGGATTCGTCCGGGTGAATCAGTTTGGAAAGGTTATAAACTGCA
 |||||
 AGATGTTGAAATTGAATGGATTCGTCCGGGTGAATCAGTTTGGAAAGGTTATAAACTGCA
 1441 -----+-----+-----+-----+-----+-----+

GGTCTTTCTGGATGAACGCAAAAAATGACCATGG
 |||||
 GGTCTTTCTGGATGAACGCAAAAAATGACCATGGCTGGGCCTCATGGGCCTTCCTTTCAC
 1501 -----+-----+-----+-----+-----+-----+

1561 TGCCCGCTTTCCAG
-----+-----