

ID Construct **12ABJHCC** Map

Customer **UNIVERSITÄT REGENSBURG, Jennifer Flechsler**

Name of the gene **Igni_1058**

optimized for **Escherichia coli**

02.11.2012 09:48:17

ClaI *BamHI*

GGGATCTGTACGACGATGACGATAAGGATCGATGGGGATCCATGCTGGGTGGTGCACTGG
 1 -----+-----+-----+-----+-----+-----+
 CCCTAGACATGCTGCTACTGCTATTCCTAGCTACCCCTAGGTACGACCCACCACGTGACC
 M L G G A L A

CACTGTATAGCCTGCTGCGTCTGTGGACCGCAGATCAGGCACTGCAAGAAGTTCGTAAAG
 61 -----+-----+-----+-----+-----+-----+
 GTGACATATCGGACGACGCAGACACCTGGCGTCTAGTCCGTGACGTTCTTCAAGCATTTT
 L Y S L L R L W T A D Q A L Q E V R K V

TTCTGGTTGTTGGTGCCGGTGTATGGGTTCATGGTATTGCACAGGTTGCAGCAATGAGCG
 121 -----+-----+-----+-----+-----+-----+
 AAGACCAACAACCACGGCCACAATACCCAGTACCATAACGTGTCCAACGTCGTTACTCGC
 L V V G A G V M G H G I A Q V A A M S G

GTCTGAATGTTTCGTATGATTGATATTAAACAAGAATTTCTGGATCGCGCAATGGAACGCA
 181 -----+-----+-----+-----+-----+-----+
 CAGACTTACAAGCATACTAACTATAATTTGTTCTTAAAGACCTAGCGCGTTACCTTGCGT
 L N V R M I D I K Q E F L D R A M E R I

TTAAAGAAAGCCTGGAAAACTGTATGCCAAAGGCAAACCTGAAAGAACCGCTGAAGAAG
 241 -----+-----+-----+-----+-----+-----+
 AATTTCTTTTCGGACCTTTTGGACATACGGTTTCCGTTTGACTTTCTTGCGGACTTCTTC
 K E S L E K L Y A K G K L K E P P E E V

TTCTGAAACGTATTGAAACAATGGTTGCCAATCCGGATGATGAAAGCAGCTATGCCGAAG
 301 -----+-----+-----+-----+-----+-----+
 AAGACTTTGCATAACTTTGTTACCAACGGTTAGGCCTACTACTTTTCGTCGATACGGCTTC
 _L_K_R_I_E_T_M_V_A_N_P_D_D_E_S_S_Y_A_E_A

CAGCAAAAGATGTTGATTTTGTATTGAAGCCGTGCCGAAAACTGGAAGTGAACGTG
 361 -----+-----+-----+-----+-----+-----+
 GTCGTTTTCTACAACTAAAACAATAAATTCGGCACGGCCTTTTTGACCTTGACTTTGCAC
 _A_K_D_V_D_F_V_I_E_A_V_P_E_K_L_E_L_K_R_A

CAGTTTTTAGCGTGCTGGATAAATATGCACCGCCTCATGCAATTCTGGCAAGCAATACCA
 421 -----+-----+-----+-----+-----+-----+
 GTCAAAAATCGCACGACCTATTTATACGTGGCGGAGTACGTTAAGACCGTTCGTTATGGT
 _V_F_S_V_L_D_K_Y_A_P_P_H_A_I_L_A_S_N_T_S

SphI

GCAGCATTCCGATTACCGAAATTGCAAAAGCAACCAACGTCCGGATAAAGTTGTTGGCA
 481 -----+-----+-----+-----+-----+-----+
 CGTCGTAAGGCTAATGGCTTTAACGTTTTCTGTTGGTTTGCAGGCCTATTTCAACAACCGT
 _S_I_P_I_T_E_I_A_K_A_T_K_R_P_D_K_V_V_G_M

TGCATTTTTTCAATCCGCCTGTTATTCTGAAACTGGTTGAAGTTGTTTCGTGGCAAAGAAA
 541 -----+-----+-----+-----+-----+-----+
 ACGTAAAAAAGTTAGGCGGACAATAAGACTTTGACCAACTTCAACAAGCACCGTTTCTTT
 _H_F_F_N_P_P_V_I_L_K_L_V_E_V_V_R_G_K_E_T

CCAGTGATGAAACCGTGAAAAATTACCGTTGAACTGGCCAAAAAATGGGCAAAGTTCCGA
 601 -----+-----+-----+-----+-----+-----+
 GGTCACACTTTTGGCACTTTTAATGGCAACTTGACCGGTTTTTTTACCCGTTTCAAGGCT
 _S_D_E_T_V_K_I_T_V_E_L_A_K_K_M_G_K_V_P_I

TTGTGGTGAACAAAGATGTTCCGGGTTTTATTGTGAATCGTATCATGGCACGTTTTCTGA
 661 -----+-----+-----+-----+-----+-----+
 AACACCACTTGTTTCTACAAGGCCCAAAATAACACTTAGCATAGTACCGTGCAAAAGACT
 _V_V_N_K_D_V_P_G_F_I_V_N_R_I_M_A_R_F_L_N

ATGAAGGTTGTTGGCTGGTTGAACGTGGTGTATACCAAAGAACAGGTTGATGCAGCAC
 721 -----+-----+-----+-----+-----+-----+
 TACTTCCAACAACCGACCAACTTGCACCACAAATATGGTTTCTTGTCCAACCTACGTCGTG
 _E_G_C_W_L_V_E_R_G_V_Y_T_K_E_Q_V_D_A_A_L

TGCGCTATAAACTGAATTTTCCGATGGGTGCATTTGAGCTGGCAGATTATGTTGGTCTGG
 781 -----+-----+-----+-----+-----+-----+
 ACGCGATATTTGACTTAAAAGGCTACCCACGTAACTCGACCGTCTAATACAACCAGACC
 _R_Y_K_L_N_F_P_M_G_A_F_E_L_A_D_Y_V_G_L_D

ATGTTCTGGTTCATCTGATGGAAGCAATGAAAGAACGTGGTATGAATCTGACCATTTGTC
 841 -----+-----+-----+-----+-----+-----+
 TACAAGACCAAGTAGACTACCTTCGTTACTTTCTTGCACCATACTTAGACTGGTAAACAG
 _V_L_V_H_L_M_E_A_M_K_E_R_G_M_N_L_T_I_C_P

CGCTGTTCAAAAACTGCTGGAAGAAGGTAACTGGGCGTTAAAAGCGGTGAAGGCTTTT
 901 -----+-----+-----+-----+-----+-----+
 GCGACAAGTTTTTTGACGACCTTCTTCCATTTGACCCGCAATTTTCGCCACTTCCGAAAA
 _L_F_K_K_L_L_E_E_G_K_L_G_V_K_S_G_E_G_F_Y

AgeI

ACAAATATCCGGCACCGGGCAAGTTCAAAAAACCGGTTGTTAAAGCAAGCGCAGCAGAAG
 961 -----+-----+-----+-----+-----+-----+
 TGTTTATAGCCGTGGCCCGTTCAAGTTTTTTGGCCAACAATTTCTGTTTCGCGTCGTCTTC
 _K_Y_P_A_P_G_K_F_K_K_P_V_V_K_A_S_A_A_E_G

GTGTTGATTACATTAGCATTGTTGATACCGCAGTTAATGAAGGTGCATGGCTGGTAGAAA
 1021 -----+-----+-----+-----+-----+-----+
 CACAATAATGTAATCGTAACAACCTATGGCGTCAATTACTTCCACGTACCGACCATCTTT
 _V_D_Y_I_S_I_V_D_T_A_V_N_E_G_A_W_L_V_E_N

BspMI

ATGGTGTTCAGGTCCGGAAGAAGTTGATACCGCCACCGTTCTGGGTCTGAATCTGCCGA
 1081 -----+-----+-----+-----+-----+-----+
 TACCACAACGTCCAGGCCTTCTTCAACTATGGCGGTGGCAAGACCCAGACTTAGACGGCT
 _G_V_A_G_P_E_E_V_D_T_A_T_V_L_G_L_N_L_P_M

TGGGTATCCTGAAACTGGGTGATAGCCTGGGTCTGGATAATGTTCTGGATAGCATCAACG
 1141 -----+-----+-----+-----+-----+-----+-----+
 ACCCATAGGACTTTGACCCACTATCGGACCCAGACCTATTACAAGACCTATCGTAGTTGC
 G I L K L G D S L G L D N V L D S I N E

PvuII

AAAAAAAAAGAAAAATATGGCCTGGAAGATTATCGTCCGGTTCAGCTGCTGGAAAATATGG
 1201 -----+-----+-----+-----+-----+-----+-----+
 TTTTTTTTCTTTTATACCGGACCTTCTAATAGCAGGCCAAGTCGACGACCTTTTATACC
 K K E K Y G L E D Y R P V Q L L E N M V

TTAAGGAAGGTAAATGCGGAGTAAAATGCGGCAAAGGTTTTTATGAATATGAAGTGAGCG
 1261 -----+-----+-----+-----+-----+-----+-----+
 AATTCCTTCCATTTACGCCTCATTTTACGCCGTTTCCAAAAATACTTATACTTCACTCGC
 K E G K C G V K C G K G F Y E Y E V S E

BglIII

AAGAAGATCTGGGCGAAATCAAAGTTCGTCTGAAGGTGAAGCACTGTGGATTATTCTGA
 1321 -----+-----+-----+-----+-----+-----+-----+
 TTCTTCTAGACCCGCTTTAGTTTCAAGCAGCACTTCCACTTCGTGACACCTAATAAGACT
 E D L G E I K V R R E G E A L W I I L N

ATCGTCCGAAACAGCGTAATGCACTGACACCGGAAATGCTGCTGAAAATGGCCGAAGTTG
 1381 -----+-----+-----+-----+-----+-----+-----+
 TAGCAGGCTTTGTGCGCATTACGTGACTGTGGCCTTTACGACGACTTTTACCGGCTTCAAC
 R P K Q R N A L T P E M L L K M A E V A

CACAGAAAGCATGTGAAGATGAAGGTGTTCTGTGCAATTGTTCTGTATGGTGGTGATGTTT
 1441 -----+-----+-----+-----+-----+-----+-----+
 GTGTCTTTCTGTACACTTCTACTTCCACAAGCACGTTAACAAGACATACCACCACTACAAA
 Q K A C E D E G V R A I V L Y G G D V F

BspMI

TTAGCGCAGGTTTTGATCTGACCGTGATGAAAGATGTAGATCCGACCAAAGCACCGGAAA
 1501 -----+-----+-----+-----+-----+-----+-----+
 AATCGCGTCCAAAAGTAGACTGGCACTACTTTCTACATCTAGGCTGGTTTCTGTGGCCTTT
 S A G F D L T V M K D V D P T K A P E T

AgeI

1561 CCGTTGCACGTCCTTTCAAAAACTGGCACTGGCACTGGAAGGTTGTCCGAAACCGGTTA
-----+-----+-----+-----+-----+-----+
GGCAACGTGCAGGAAAGTTTTTTGACCGTGACCGTGACCTTCCAACAGGCTTTGGCCAAT
_V_A_R_P_F_K_K_L_A_L_A_L_E_G_C_P_K_P_V_I

AgeI

BglII

1621 TTGCATATATTACCGGTTATGCACTGGGTGGTGGTCTGGAAGTTGCAATGATGGCAGATC
-----+-----+-----+-----+-----+-----+
AACGTATATAATGGCCAATACGTGACCCACCACCAGACCTTCAACGTTACTACCGTCTAG
_A_Y_I_T_G_Y_A_L_G_G_G_L_E_V_A_M_M_A_D_L

1681 TCGTCTGGCAACCGAAGATAGCCTGCTGGGTCAGCCGGAATTAATGTTGGTATTATGC
-----+-----+-----+-----+-----+-----+
ACGCAGACCGTTGGCTTCTATCGGACGACCCAGTCGGCCTTTAATTACAACCATAATACG
_R_L_A_T_E_D_S_L_L_G_Q_P_E_I_N_V_G_I_M_P

PvuII

1741 CTGGTGGTGGTGGCACCCAGCGTCTGCCTCGTCTGGTTGGTCTGGGTCGTGCAATGCAGC
-----+-----+-----+-----+-----+-----+
GACCACCACCACCGTGGGTCGCAGACGGAGCAGACCAACCAGACCCAGCACGTTACGTCG
_G_G_G_G_T_Q_R_L_P_R_L_V_G_L_G_R_A_M_Q_L

1801 TGGTTCTGCTGGGTGATCCGATTGATGCAGTTGAAGCAGAAAAATGGGGTCTGGTTAATT
-----+-----+-----+-----+-----+-----+
ACCAAGACGACCCACTAGGCTAACTACGTCAACTTCGTCTTTTTACCCAGACCAATTAA
_V_L_L_G_D_P_I_D_A_V_E_A_E_K_W_G_L_V_N_W

1861 GGGCAGTGCCGAAACGTATTGCAGATAGCGAAGTTCGTCTGCTGGTTAAAAAACTGAGCA
-----+-----+-----+-----+-----+-----+
CCCGTCACGGCTTTGCATAACGTCTATCGCTTCAAGCAGACGACCAATTTTTTGACTCGT
_A_V_P_K_R_I_A_D_S_E_V_R_L_L_V_K_K_L_S_S

1921 GCAAACCGAAAGAAGCACTGGCCCTGGCAAAAAAGCAGTTCGTGTTGCACAAGAGGTTTC
-----+-----+-----+-----+-----+-----+
CGTTTGGCTTTCTTCGTGACCGGGACCGTTTTTTTTCGTCAAGCACAACGTGTTCTCCAAG
_K_P_K_E_A_L_A_L_A_K_K_A_V_R_V_A_Q_E_V_P

CGCTGATTGATGGTCTGGAAATGGAAGCCGAAGCATTTGCACGTGCACTGGCCACCGAAA
 1981 -----+-----+-----+-----+-----+-----+
 GCGACTAACTACCAGACCTTTACCTTCGGCTTCGTAAACGTGCACGTGACCGGTGGCTTT
 _L_I_D_G_L_E_M_E_A_E_A_F_A_R_A_L_A_T_E_N

EcoRI

BstBI

ATGCCAAAGAAGGTATTGCAGCATTTCTGGAAAAACGCAAACCGAATTTCAAATAAGAAT
 2041 -----+-----+-----+-----+-----+-----+
 TACGGTTTCTTCCATAACGTCGTAAAGACCTTTTTGCGTTTGGCTTAAAGTTTATTCTTA
 _A_K_E_G_I_A_A_F_L_E_K_R_K_P_N_F_K_*_

HindIII

TCGAAGCTTGATCCGGCTGCTAACAAAGCCCGAAAGG
 2101 -----+-----+-----+-----
 AGCTTCGAAGCTAGGCCGACGATTGTTTCGGGCTTTCC