

Order No. **0714734** **Map**
 Customer **DSTL: Abigail Spear**
 Name of the gene **BTH_I3242**
 optimized for non-optimized

22.11.2007 16:12:30

SacII

NotI

KpnI *NheI* *attB1-5'* *EagI*

1
 -----+-----+-----+-----+-----+-----+
 GGGCGAATTGGGTACCGCTAGCACAAGTTTGTACAAAAAGCAGGCTCCGCGGCCGCCCC
 CCCGCTTAACCCATGGCGATCGTGTTCAAACATGTTTTTTCGTCCGAGGCGCCGGCGGGG

NcoI *HinfI*

61
 -----+-----+-----+-----+-----+-----+
 CTTGCCACCATGGCATCAGTTTTCTTTTCGTACACGCATATAGACGAGTCGCTGCGCGAC
 GAACGGTGGTACCGTAGTCAAAGAAAAGCATGTGCGTATATCTGCTCAGCGACGCGCTG
M A S V F F S Y T H I D E S L R D

121
 -----+-----+-----+-----+-----+-----+
 CAGCTCGAAATCCACCTCTCGCTTATGAAGCGCGAGGGCCTCATTACCGCATGGCATGAC
 GTCGAGCTTTAGGTGGAGAGCGAATACTTCGCGCTCCCGGAGTAATGGCGTACCGTACTG
Q L E I H L S L M K R E G L I T A W H D

ClaI *ClaI*

181
 -----+-----+-----+-----+-----+-----+
 CGGCGCATCGTCGCAGGCTCCGACATCGATGACAGCATCGATGAGCACCTTGAGAGCGCA
 GCCGCGTAGCAGCGTCCGAGGCTGTAGCTACTGTCTGCTAGCTACTCGTGGAACCTCTCGCGT
R R I V A G S D I D D S I D E H L E S A

ScaI

241
 -----+-----+-----+-----+-----+-----+
 GACATCATCTTGCTGCTAGTGAGCGCGAACTTCATCGCATCCGAGTACTGCTTCGCGACC
 CTGTAGTAGAACGACGATCACTCGCGCTTGAAGTAGCGTAGGCTCATGACGAAGCGCTGG
D I I L L L V S A N F I A S E Y C F A T

301
 -----+-----+-----+-----+-----+-----+
 GAGATGAAGCGTGCAATGGAGCGTCATAAGGCTGGTGAGGTGCGCGTCATCCCCGTCATC
 CTCTACTTCGCACGTTACCTCGCAGTATTCGACCACTCCACGCGCAGTAGGGGCAGTAG
E M K R A M E R H K A G E V R V I P V I

HaeII

BssHII *HaeII*

361
 -----+-----+-----+-----+-----+-----+
 CTGCGCGCTTGTGACTGGCACAGCGCCCCGTTTCGGAAACTGAACGCAGTTCGACCGAT
 GACGCGCGAACACTGACCGTGTCTCGCGGGCAAGCCTTTTGAAGTTCGCGTCAAGGCTGGCTA
L R A C D W H S A P F G K L N A V P T D

EagI *BstEII* *HinfI*

421
 -----+-----+-----+-----+-----+-----+
 GGCCGGCCGGTGACCTCTTGCCCCAACCAAGATGAGGCGTTTGCCGACATCACGAAGTCG
 CCGGCCGGCCACTGGAGAACCGGGTTGGTTCTACTCCGCAAACGGCTGTAGTGCTTCAGC
G R P V T S W P N Q D E A F A D I T K S

NarI
KasI
HaeII
HaeII

481 ATTCGCGCTGCTGTGAGTGCGACCGCGTCGTCATCGGCGCGAGCGCGGGTTGCGGCGCCG
-----+-----+-----+-----+-----+-----+-----+
TAAGCGCGACGACACTCACGCTGGCGCAGCAGTAGCCGCGCTCGCGCCCAACGCCGCGGC
I_R_A_A_V_S_A_T_A_S_S_S_A_R_A_R_V_A_A_P_

BssHII SacII

541 GCGCGCGAGGCAGGGGCGGCCGCGCAGTGGCAGTGGCCGCGCGAGTACGCAATTGCCG
-----+-----+-----+-----+-----+-----+-----+
CGCGCGCTCCGTCCCCGCGGGCGCGTCACCGTCACGGGCGGCGCTCATGCGTTAACGGC
A_R_E_A_G_A_A_R_A_V_A_V_P_A_A_S_T_Q_L_P_

601 CGGTCTAGCAACATGCGCGTCAAACATCAGTTCTCGGACTTGGACAGAGATACGTTTGT
-----+-----+-----+-----+-----+-----+-----+
GCCAGATCGTTGTACGCGCAGTTTGTAGTCAAGAGCCTGAACCTGTCTCTATGCAAACAA
R_S_S_N_M_R_V_K_H_Q_F_S_D_L_D_R_D_T_F_V_

PflMI
BsmBI BstNI

661 TCGGAGACGTTTGACTTTATCGCCCGTTTCTTCGATGGCTCGCTCCAGGAGCTGGAAAAG
-----+-----+-----+-----+-----+-----+-----+
AGCCTCTGCAAACGAAATAGCGGGCAAAGAAGCTACCGAGCGAGGTCCTCGACCTTTTC
S_E_T_F_D_F_I_A_R_F_F_D_G_S_L_Q_E_L_E_K_

HinfI
BstNI ClaI BssHII

721 CGGCACGGCCAGTTCCAGGGTCGATTTACCCGAATCGATGCGCGCCGCTTCACTGCGAGC
-----+-----+-----+-----+-----+-----+-----+
GCCGTGCCGGTCAAGGTCCCAGCTAAATGGGCTTAGCTACGCGCGGCGAAGTGACGCTCG
R_H_G_Q_F_Q_G_R_F_T_R_I_D_A_R_R_F_T_A_S_

NarI
KasI
HaeII
BsmBI HaeII

781 ATCTACAAGGACGGCAAGAGTATCTCGCAGTGCAGCGTCTCCACGGCGGCGCCTTCGGT
-----+-----+-----+-----+-----+-----+-----+
TAGATGTTCCGTGCCGTTCATAGAGCGTCACGTGCGAGAGGGTGCCGCCGCGGAAGCCA
I_Y_K_D_G_K_S_I_S_Q_C_S_V_S_H_G_G_A_F_G_

841 GGGAGCAGCAACCGCGAGATTACGTACTCCAGTCAGATTTCAACGCATACCAACAGCTTC
-----+-----+-----+-----+-----+-----+-----+
CCCTCGTCGTTGGCGCTCTAATGCATGAGGTCAGTCTAAAGTTGCGTATGGTTGTGCAAG
G_S_S_N_R_E_I_T_Y_S_S_Q_I_S_T_H_T_N_S_F_

HaeII
HaeII HinfI

901 AACGAGGCGCTTACCATCGCGGAAGATAGCCAGACTCTGTACCTAAAGCCGATGATGAAC
-----+-----+-----+-----+-----+-----+-----+
TTGCTCCGCGAATGGTAGCGCCTTCTATCGGTCTGAGACATGGATTTTCGGCTACTACTTG
N_E_A_L_T_I_A_E_D_S_Q_T_L_Y_L_K_P_M_M_N_

BstNI

961 ATGGCCAGGGGAGTGTCCGAAAAGCTGTCTGACACCGGAGCCGCTGAGTATCTGTGGTCA
-----+-----+-----+-----+-----+-----+-----+
TACCGGTCCCCTCACAGGCTTTTCGACAGACTGTGGCCTCGGCGACTCATAGACACCAAGT
M_A_R_G_V_S_E_K_L_S_D_T_G_A_A_E_Y_L_W_S_

BssHII
AscI *attB2-3'*

1021 ATGTTGATGGAACCCGTCCAGCGCAAGGGTGGGCGCGCCGACCCAGCTTTCTTGTACAAA
 -----+-----+-----+-----+-----+-----+
 TACAACCTACCTTGGGCAGGTCGCGTTCCCAACCGCGCGGCTGGGTCGAAAGAACATGTTT
M _ L _ M _ E _ P _ V _ Q _ R _ K _ G _ G _ R _ A _ D _ P _ A _ F _ L _ Y _ K _

SacII
XbaI *ApaI* *BstBI* *BsaI*

1081 GTGGTTGATCTAGAGGGCCCGCGGTTCTGAAGGTAAGCCTATCCCTAACCCCTCTCCTCGGT
 -----+-----+-----+-----+-----+-----+
 CACCAACTAGATCTCCCGGGCGCCAAGCTTCCATTTCGGATAGGGATTGGGAGAGGAGCCA
V _ V _ D _ L _ E _ G _ P _ R _ F _ E _ G _ K _ P _ I _ P _ N _ P _ L _ L _ G _

HinfI *BamHI* *SacI*

1141 CTCGATTCTACGTGATAATGAGGATCCGAGCTCCAGCTTTTGTTCCT
 -----+-----+-----+-----+-----+
 GAGCTAAGATGCACTATTACTCCTAGGCTCGAGGTCGAAAACAAGGG
L _ D _ S _ T _ * _ * _ * _