Sequence: Rr413em1Mgn genome editing strategy.gbk (Linear / 3001 bp)
Enzymes: Unique 6+ Cutters (40 of 678 total)
Features: 6 total
Primers: 4 total

Unique Cutters Bold

8 ' 6'

Start (0) SapI	
	85
WWWFDFFWDDJDJWDDWJDDDFDDWFJWDFDDFFDFJDJJFWFJWWWDFWWWFDDJDJFFWDFJWFWFJWDJJJDFWDFWWFWFJ	
DWFFWFWJFDJJFWWFFFFWJFFFFFFJJDDFFFWWJDFWWFFWJDFDDDFDFWWWJFDJDJDDJJDDDDDWDFFDDJJFWWFWW	170
WDJJDJDFJWFFJDDJJJJJDFJJJJJFFWWJJJDDFWJDDJJDFWJWWWJWJDDDFJWFWFWWFFWWWWWDWJJWWFFJDDJDD	
FWWJJFWWWJDWWWFWFWJFDJFDJJDWJFFWWDJDFJJDDWJWJFWFWFFDDJWJWDFDDJJDDFWWWFDFJJJJJWFJJJJJW	255
BbvCI Bpu10I	
Primer 1	
ACCTGCTTTCTGCTCTCTC	
JJJJFDWFJFWJDJJDFFWJFWWWFWJFWFWFWFWWWJFDWFWWDJJJDWJFDDWFWDDDFWDFFFWWJDDJJJDWJJFDJW FFFFJWDJFJDFWFFWJJDFJDDDJDFJDJDJDDDDFJWDJDDWFFFWDFJWWDJDWWWJDWJJJDDFWWFFFWDFFJWFD	340
EcoRI	
JDFDWFWFWFWJDDJWWFFFFWDDDFDJJDDWWFWJJJDDDJWFFWFWFDJJDFFDDFDDJDJWJWWFFWDFDDWJJJFDWFFWF	
FWJWDJDJDJDFWWFDDJJJDWWWJWFFWWDDJDFFFWWWFDJJDJDJWFFWJJWWJWWFWFDFDDJJDWJWWDFFFJWDJJDJ	425
Banl	
FDJDWDDFDFWJJWWWFWFDJWDWWJDJDDFFFDDJJDFFJJFWFWFWJDJWDWJWJWWWJWW	510
JWFWDWWJWJDFFDDDJDJWFDWDDFWFWWJJJWWFFWJJFFJDJDJDFWFDWDFDDDDFDDDJWFFWFJWWWFFJWJJJJDWJ	310
Irs1_5_Fwd1 Conserved DNA Seq	quence
Xbal	
WFFFFDFFFFWDFFFFDFFFFDFWFFDJWWWWFWJFWJWFWJW	
DJJJJWJJJJDWJJJJJWJDJJWFDDDDJDFJDFDJDFDJ	595
Conserved DNA Sequence	
FFDJJJJDFFDJDDDJJDJDFWJWJJFDJWFWFWDDJDDWDFDJWDWDDFDJJWDDDJFWDWWWJWWWJ	
JJWFFFFWJJWFWWWFFWFWJDFDFFJWFDJDJDWWFWWDWJWFDWDWWJWFFDWWWFJDWDDDFFDDWWDDDJDJDJWFD	680
Conserved DNA Sequence	
WFDJWWDJJWFJWWWJJWFDWFDWJJWDFWFWWJWDWWWWDWDDJDDFWJFFDJFWFFFDDFDDFDFWFWWWFWW	
DJWFDDWFFDJFDDDFFDJWDJWDJWDFDWJDJDDFDWDDDDWDWWWFWWJDFJJWFJDJJJWWJWWJWJDJDDDDJDJJJW	765
Conserved DNA Sequence	
FWJJDDDFDJDDDWDWJWFFWFWWFDJJDDWWWWFFDFWWDDFDJFFFWJJFWWFFFFDJFWJWDJFFWFDFDFFFDDFFWJFD	850
JDFFWWWJWFWWWDWDFDJJDJDDJWFFWWDDDDJJWJDDWWJWFJJJDFFJDDJJJJWFJDFDWFJJDJWJWJJJWWJJDFJW  Conserved DNA Sequence	
TGTGGTTGGACGT	
Primer 3	

## **BsrDL** 935 Conserved DNA Sequence TACGACA Primer 3 TTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTATCCAGCACAATGAGTGGTATTCAGTCATTTTAAAGCCACVFDD \*\*\*\*\* 1020 Conserved DNA Sequence NsiI HindIII CCACCCCTACATCTTAGCTCTTTTTAAAATAATGCATACTTTCGAACAATGTCAGGGAGGCCAGAAGCTTTTAAGCGACAWWD 1105 GGTGGGGGATGTAGAATCGAGAAAAATTTTATTACGTATGAAAGCTTGTTACAGTCCCTCTCGGTCTTCGAAAATTCGCTGVDDW Conserved DNA Sequence HincII **BsmI** CAGTTAATTAGTTATGTCGCCATCACAGAATCATCAGCATTCTGGTCGTCAACTCTCCCCTCTTCTTCCCCTCCCCAWFW 1190 GTCAATTAATCAATACAGCGGTAGTGTCTTAGTAGTCGTAAGACCAGCAGTTGAGAGGGGAGAAGAAGGGGAGGGGGAGAGGGGTADJD Conserved DNA Sequence ACCCCATAATTTTCTCATCCCAGACCCCTTTCCTGTCCTGTAAATACATTAAAGACAAACCTCACGGTCCATATTCTTTTCVFFF TGGGGTATTAAAAGAGTAGGGTCTGGGGAAAGGACAGGACATTTATGTAATTTCTGTTTGGAGTGCCAGGTATAAGAAAAGAJJJ Conserved DNA Sequence BpuEI MfeI SspI 1360 TTAACAAATGAAAACGTTTAATAAAGTGAACTCGTTATAAATGTTTGATATGTTCTCCGGACTGCGCTACTATTCTCTCCTCWJW Conserved DNA Sequence Blpl GATTGCTTATAATCTCCGCTATAAACCAGGAAGAGCTTGCAAATGTGTTCCCAGCCTGCATCAGCAAAGGCTTGCAGCTJDJ 1445 CTAACGAATATTAGAGGCGATATTTGGTCCTTCTCTCGAACGTTTACACAAGGGTCGGGACGTAGTCGTTTCCGAACGTCGDFWF Conserved DNA Sequence HaeII XcmI CCCGATCTCAGCGCCACTCCCCACCACTCAAACGCTGACTGCAAAATTGGGGGGCCCCTAATGCCAGCCCAAGGAGTTCCTGUJDJ 1530 GGGCTAGAGTCGCGGTGAGGGGTGGTGAGTTTGCGACTGACGTTTTAACCCCCCGGGGATTACGGTCGGGTTCCTCAAGGACCFWF Conserved DNA Sequence AlwNI JJDJJDJJFDWFFFFDDJWFWFWDJWFDDWJFDJJJDDDFJDJJJFDWWWDJJJJDJDWFDJWWJFWJJWWDDJWWDFDJJJDFDW -----1615 FFWFFWFFJWDJJJWWFDJDJDWFDJWWDFJWFFFWWWJFWFFFJWDDDWFFFFWFWDJWFDDFJDFFDDWWFDDWJWFFFWJWD Conserved DNA Sequence

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MfII\* **BstYI** Bmtl BamHI Nhel JDWJCTAGCCTTCTCTGATGAAGATTGTAGGATCCGTGACCACAAAAGCCTGCAGTGCGGAGCTCTGCGGAGTCTGCGACTA0FD \*\*\*\*| FWDEGATCGGAAGAGACTACTTCTAACATCCTAGGCACTGGTGTTTTCGGACGTCACGCCTCGAGACGCCTCAGACGCTGAT0JW Conserved DNA Sequence **BsaHI** JDDJGAGGAGCAGCAGGAGCCTCCCCAGTCTGGCAGGGTGGTAGCTTCTCAGACAGTCTGGCCTAGGGGCGTCACAGGAJF 1785 FWWECTCCTCCTCGGTCCTCCGGAGGGGTCAGACCGTCCCACCATCGAAGAGTCTGTCAGACCGGATCCCCGCAGTGTCC7FJ Conserved DNA Sequence +++++ 1870 WJWEGACTCACAGACATCTTCCTTGATCTTAAAGCTTCTATATCTCTCCCCCCTTCTTCTCTCCTCAAACAAGTTCGACCCTCFF Conserved DNA Sequence 1955 Conserved DNA Sequence FWWECACTTTTAGGCAGGAACAAGAGCTGGGAGGCAAACAGCAGCACAAGCTGACAGGTGATCAAAGGGGAACAGAAWJ 2040 JDDJGTGAAAATCCGTCCTTGTTCTCGACCCTCCGTTTGTCGTCGTGTTCGACTGTCGAGGTTCCACTAGTTTCCCCTGTCT7DF Conserved DNA Sequence EaeI\* BsaBI\* MscI\* Bsal DDWJTCTTGCTCTCAGAGCTATTTATTACAAAGAGAGGGGTGCTCCTGGCCCACGCTGAAGGGGAGAGGGATTAAGATCAACT/AJD 2125 WWDEAGAACGAGAGTCTCGATAAATAATGTTTCTCTCCCCACGAGGACCGGTGCGACTTCCCCTCTCCCTAATTCTAGTTGA7FW Conserved DNA Sequence DDJLGACCGGCCTGTGCCTGGCTCCTTTATGTAGGAGCGGAAAATGGGCATGTATATTTTAATATATGGATATTTAAGTGTA0WW 2210 WWFVCTGGCCGGACACGGACCGAGGAAATACATCCTCGCCTTTTACCCGTACATATAAAATTATACCTATAAAATTCACAT¢DD Conserved DNA Sequence BtgI NcoI 2295 Conserved DNA Sequence 51 bp CA repeat stretch Primer 4 **EcoRV** CCACCTCCACTACCACCTATATG 2380 Conserved DNA Sequence

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51 bp CA repeat stretch



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DDDWWJWFJWWJWWWJWFWJDWFJDD

DNA Type: Natural DNA

UNA

Description:

Created: Nov 11, 2020 Last Modified: Nov 11, 2020

Accession Number: Code Number:

Sequence Author:

Comments:

References: Embedded Files: