**Gasz[KO]**

LOCUS Gasz[KO] 4108 bp ds-DNA linear 07-MAY-2020

DEFINITION .

FEATURES Location/Qualifiers

misc\_feature 1..1015

/label="genomic region upstream of Gasz"

misc\_feature 2965..2967

/label="K>E"

misc\_feature 1118..1177

/label="GASZ\_exon1"

misc\_feature 1178..1383

/label="3xP3-hsp70"

misc\_feature 2926..3925

/label="right homology arm"

misc\_feature 1178..2925

/label="3xP3xP3-RFP"

misc\_feature 178..1177

/label="left homology arm"

CDS 1411..2088

/label="RFP"

misc\_feature 2926..3051

/label="GASZ\_exon5"

misc\_feature 2113..2925

/label="tubulin-alpha-1 3'UTR"

misc\_feature 3052..3480

/label="GASZ\_3'UTR"

misc\_feature 3394..3395

/label="deleted"

misc\_feature 1022..1117

/label="GASZ\_5'UTR"

misc\_feature 3481..4108

/label="genomic region downstream of Gasz"

ORIGIN

1 GAGCAGGCTG AACGGCAGCT AGCCAAAACG GAGCAACAGC TCTCCAAAAC GGAGCGAAAG

61 CTGCTGGGAC AGACCAACGA GCGACGTGGT TGGTTCCAGA CGAAACAGCA ACGCGAGGCG

121 GAGAAGGATC GCTTAGCGTT GACAACCGGC GACGAGGATA AAGCATCTGG TGGAAAGGGT

181 AAGGGAAAAA CGGCCGGAAA GCGTAAGCGA CCCGAGTACG GAGGCGATGG CGAGGATGGA

241 CCACCGGTCA AGGATCTCGA GGCAAAGCGC AACAAGAAGA AGAAGGAGGA GCCTCGAAAG

301 AAGACACCGG AGCAGCTGGC CAAAGAGCGA GCCATGAAGG AGATCGAGAA GGTGTCCCTT

361 GTGCGCGCCA AGATGGCCAA GCTGCGCAAA CGTCCGGGCA AACTAGGAGC CGCCACCGAA

421 GTTCACAGAA GCGGTGCCTC CGACGGCAAA CCCAAGCGAC GCGGCGGTCA GTCGGCATTT

481 ACTAACGACT TGACCGATGT AAGTCGTGGC GGAGCTCTGC GTCTAAGGTG AGTAGCTCTT

541 TCTCGCTTTT CGTTGATAGT TGTTCTAATT TTGTACACCC TTTTCCAGGT CCGAGGCCAA

601 TCGGCACAAA AAGATGACCA AGATCGCTGC TAAGAAAAAG GCGAGCAGTG TGAAGCTGAC

661 AAACAAGGCG GGAAAGAATA AGTTCAACAA GGGCAAGAAC TTCGGAGGAC CTCGTCACGC

721 CAAGAAGGAT AAAAAGAAGT AGAGCTGCAA ACTACGCTAT GTTAAATCGT ATACTTGTAA

781 AATAAAACTT TTTCTTCTTT AAGGCATTTA ATTTTTTTAA TTTGCTTTAA ACATATGACA

841 CCTCAAAACA AAATTGCGAA TCTGCATAAT CAGAGTGTTA AACTTTCTAA TATAACTGCA

901 AATTTACTAT TGCTTAAATT AGTTTCGGTT ATCTTAATTT AGCTTAGTTT AAAAAGCGCG

961 CCATGATATC GATAAAAATC GATTGTGCAA ACTTTTTCAG AACCTCGCCT CCCCTCACTA

1021 GTTTTGTTTG CCATTTTCCT CCTTTCGCCT TTTTCCTGAA TTTGGCCACA ATTGTTGTGT

1081 GCTTAAACTG CTAAATTAGG TTTATATAAG TACCTGTATG ATGAGCAACC TTTGCAAATA

1141 CGGACCGCCC CCAGATTCCG ACTCTGATAG CAGCTACGGA TCTAATTCAA TTAGAGACTA

1201 ATTCAATTAG AGCTAATTCA ATTAGGATCC AAGCTTATCG ATTTCGAACC CTCGACCGCC

1261 GGAGTATAAA TAGAGGCGCT TCGTCTACGG AGCGACAATT CAATTCAAAC AAGCAAAGTG

1321 AACACGTCGC TAAGCGAAAG CTAAGCAAAT AAACAAGCGC AGCTGAACAA GCTAAACAAT

1381 CGGGCGGCCG CACTAGAGCC GGTCGCCACC ATGAGGTCTT CCAAGAATGT TATCAAGGAG

1441 TTCATGAGGT TTAAGGTTCG CATGGAAGGA ACGGTCAATG GGCACGAGTT TGAAATAGAA

1501 GGCGAAGGAG AGGGGAGGCC ATACGAAGGC CACAATACCG TAAAGCTTAA GGTAACCAAG

1561 GGGGGACCTT TGCCATTTGC TTGGGATATT TTGTCACCAC AATTTCAGTA TGGAAGCAAG

1621 GTATATGTCA AGCACCCTGC CGACATACCA GACTATAAAA AGCTGTCATT TCCTGAAGGA

1681 TTTAAATGGG AAAGGGTCAT GAACTTTGAA GACGGTGGCG TCGTTACTGT AACCCAGGAT

1741 TCCAGTTTGC AGGATGGCTG TTTCATCTAC AAGGTCAAGT TCATTGGCGT GAACTTTCCT

1801 TCCGATGGAC CTGTTATGCA AAAGAAGACA ATGGGCTGGG AAGCCAGCAC TGAGCGTTTG

1861 TATCCTCGTG ATGGCGTGTT GAAAGGAGAG ATTCATAAGG CTCTGAAGCT GAAAGACGGT

1921 GGTCATTACC TAGTTGAATT CAAAAGTATT TACATGGCAA AGAAGCCTGT GCAGCTACCA

1981 GGGTACTACT ATGTTGACTC CAAACTGGAT ATAACAAGCC ACAACGAAGA CTATACAATC

2041 GTTGAGCAGT ATGAAAGAAC CGAGGGACGC CACCATCTGT TCCTTTAGCG GCCATCGAAT

2101 TCGAGCTCGC CCACTAAGCG TCGCGCCACT TCAACGCTCG ATGGGAGCGT CATTGGTGGG

2161 CGGGGTAACC GTCGAAATCA GTGTTTACGC TTCCAATCGC AACAAAAAAT TCACTGCAAC

2221 ACTGAAAAGC ATACGAAAAC GATGAAGATT GTACGAGAAA CCATAAAGTA TTTTATCCAC

2281 AAAGACACGT ATAGCAGAAA AGCCAAGTTA ACTCGGCGAT AAGTTGTGTA CACAAGAATA

2341 AAATCGGCCA GATTCAGTGT TGTCAGAAAT AAGAAAACCC CACTATGTTT TTCTTTGCCT

2401 TTTCTTTCTC CCAGCGATCA TTCATTTCGT GGTGAAAGAA CGGGGTCATT GCACGGAGTT

2461 TCGACTGCGG GAAAGCAGAG CTGCCGTTCA CTTCGTCTAT AATTAGCGCT TTCTATTTTC

2521 CCCGATTCGG GCCGCTGCTG CGCTTTTCCG CCTGCTGTTT GTGGCAAGTG TAGCAGCAGG

2581 CTGTGCACGC AGTGTGGCAT GCACTTGGCT TTCCACCGTT GGTATCGATT CTCTGGGACG

2641 ATGAGTCATT CCTTTCGGGG CCACAGCATA ATCGTTGCCA GCTCACCGAA ATGGTGACTT

2701 CATTTCTTAA CTGCCGTCAA GCATGCGATT GTACATACAT ACATATTTAT ATATGTACAT

2761 ATTTATGTGA CTATGGTAGG TCGATATAAT AGCAATCAAC GCAAGCAAAT GTGTCAGTCC

2821 TGCTTACAGG AACGATTCTA TTTAGTAATT TTCGTTGTAT AAAGTAATTA TGTATGTATG

2881 TAAGCCCCAT AAATCTGAAA CAATTAGGCA AAACCATGCG AAGCTTTCAT TGACTTCAAC

2941 GAAATACTCG CAGAGCGAAA ACGCgAAAAG GTGCGCAGCT ACTTCAAGTA CACCACCATT

3001 ATACTTGGAA TCTCAGTTTT CATTTGCCTC AAGTGCAAGT GGTTCTCATA GTATCCGCTC

3061 AAGAACATTC CTCATATTAT TTCCAACGTT TACGAAGAAC GTGGTTTTCC TTACCGCTCT

3121 GAACTGGCGG AATTTTTTTG CAAATCCAAA TAGTTTTAGG TTAAAGAAAA GTTTAACTCA

3181 TATTTCGAAT CGAAGTTTAT CAATTGTTAT TTCTAACTGT TAGGAAACGC GTAATCTCTC

3241 AATACATTTA ACAACCGTTT TCTCGTTAAG ACTATATATG TTAGAACGCA ATAGAAATAT

3301 ATCAAACGTT ACCTCAAAGC TGATGAATAT ACCTGAAACT AAAAGAAACG AAATATTCAA

3361 ATGTATGAAC TAAAGGTTAT GACGGAAAAC ACCATATATA TATATATTAA TACAACATCG

3421 AATGTAAAAA TTGAAAAGAG TTATTTTTGT TAACCCATTA ATAAAGGAGT TGTTAACTAA

3481 CCGGTCCGTT TTTCGTTTAG TTTTAAATTA AGTTATGTTT CTGCAATTTT TGTTCATTCG

3541 TCGTTTTATA AACGAAGTGA TATCACAATT CAAATTTACC GCCTTACCGC ATAGACCGTT

3601 TTATCTCTTG TATACTCCCG CGCAAACAAA CGGGCACACT ACTTTTTGTT TACATTAAAC

3661 TTCGCGTGAA GATTTCCCGC CATGGCGGAA TATTTGCAGC CTGGAGTCAT CCGGAAGCTG

3721 GACGAGGTGG TGGTGAACCG CATAGCCGCC GGCGAGATTA TTCAGCGACC CGCCAACGCC

3781 CTAAAAGAGC TGCTCGAGAA CAGTTTGGAC GCCCAATCGA CCCACATCCA GGTGCAGGTG

3841 AAGGCCGGTG GGCTGAAGCT GCTTCAAATC CAGGACAATG GCACaGGGAT ACGACGCGAG

3901 GATCTGGCCA TCGTCTGCGA GCGGTTCACC ACCTCCAAGC TGACCCGCTT CGAGGATTTG

3961 TCCCAGATAG CAACATTTGG CTTCAGAGGA GAGGCCTTGG CCAGCATTAG TCATGTGGCG

4021 CACCTAAGCA TCCAGACCAA GACGGCTAAG GAGAAGTGCG GCTACAAGGC CACCTACGCG

4081 GATGGCAAGC TCCAGGGTCA GCCGAAGC

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