

Primer name	Primer sequence 5'-3'	Gene	Gene ID	Specie	Description
DklP1	GATTCTGCCTTTTCGCACACCT TGC	<i>dkl</i>	1471074	<i>M. lusitanicus</i>	Gene deletion
DklP2	GTAGATAGGCTGCCCTCAC	<i>dkl</i>	1471074	<i>M. lusitanicus</i>	Gene deletion
DklP3	CGATAGCATGGCCAGTGTACG TCAATTCCAACACAAGGTGCTC	<i>dkl</i>	1471074	<i>M. lusitanicus</i>	Gene deletion
DklP4	GCAGGGAAAAGGTTGCTTGGA TG	<i>dkl</i>	1471074	<i>M. lusitanicus</i>	Gene deletion
DklP5	GGATGTTGCGTAACACTGTGC	<i>dkl</i>	1471074	<i>M. lusitanicus</i>	Gene deletion
DklP6	CAAGTACCAATGCTGAGGCAC GGAACGAAATGTTGCCAGCAG	<i>dkl</i>	1471074	<i>M. lusitanicus</i>	Gene deletion
DflP1	CACGGATGCGACATGTAAGAC	<i>dfl</i>	1468915	<i>M. lusitanicus</i>	Gene deletion
DflP2	TGAGGAAGTTCGATTAGACTCG	<i>dfl</i>	1468915	<i>M. lusitanicus</i>	Gene deletion
DflP3	CGATAGCATGGCCAGTGTACG CAGCAATGGTACTCATGGTAGT CG	<i>dfl</i>	1468915	<i>M. lusitanicus</i>	Gene deletion
DflP4	CTCCATCATCTTCACACATCAC G	<i>dfl</i>	1468915	<i>M. lusitanicus</i>	Gene deletion
DflP5	AGACATCTGCGTGTCCACAGA C	<i>dfl</i>	1468915	<i>M. lusitanicus</i>	Gene deletion
DflP6	CAAGTACCAATGCTGAGGCATA GTCGCATTTCATTGGGCACTC G	<i>dfl</i>	1468915	<i>M. lusitanicus</i>	Gene deletion
Fet3aP1	ACTCGATCTATGCTGCTCGC	<i>fet3a</i>	1559204	<i>M. lusitanicus</i>	RT-qPCR
Fet3aP2	AGCGGGAATAGGCCATTGAT	<i>fet3a</i>	1559204	<i>M. lusitanicus</i>	RT-qPCR
Fet3aP3	GGCAACTAACAGACAAGTGG	<i>fet3a</i> <i>promoter</i>	1559204	<i>M. lusitanicus</i>	DNA Pull-down
Fet3aP4	GACAATGATGGCTGCCTCAG	<i>fet3a</i> <i>promoter</i>	1559204	<i>M. lusitanicus</i>	DNA Pull-down
fet3aF	TGATAATGCTGTGCCATGTGC TGG	<i>fet3a</i>	1559204	<i>M. lusitanicus</i>	Δ <i>fet3a</i> Δ <i>frt1a</i> deletion
fet3aR-pyrG	CAAGTACCAATGCTGAGGCAC TCGCGATAGAATGGGTAGACC AC	<i>fet3a</i>	1559204	<i>M. lusitanicus</i>	Δ <i>fet3a</i> Δ <i>frt1a</i> deletion
pM-F	TTTTTTTTGGATCAAGAAAAAAT GAATAATGG	<i>fet3a</i>	1559204	<i>M. lusitanicus</i>	Mycelium promoter PCR

pM-R	CTTTGAGCGTAAAAATTTGATAA ATC	<i>fet3a</i>	1559204	<i>M. lusitanicus</i>	Mycelium promoter PCR
fet3a-out	CCTCCATCTCGTTCTGCAGTG	<i>fet3a</i>	1559204	<i>M. lusitanicus</i>	Δ fet3a Δ frt1a 5' junction PCR and whole locus PCR, Y2M 5' junction PCR
Fet3bP1	CATCCACGCTGACCTGAACA	<i>fet3b</i>	1533515	<i>M. lusitanicus</i>	RT-qPCR
Fet3bP2	CAACGTCTTCGCTAGGAGCA	<i>fet3b</i>	1533515	<i>M. lusitanicus</i>	RT-qPCR
Fet3bP3	CAACGCGAGCAGCATAGATCG	<i>fet3b</i> <i>promoter</i>	1533515	<i>M. lusitanicus</i>	DNA Pull- down
Fet3bP4	TCTTGACCTCCCATTGCATAGA G	<i>fet3b</i> <i>promoter</i>	1533515	<i>M. lusitanicus</i>	DNA Pull- down
Fet3bP5	TTACCAGCACCTTTCAGTTCGA CGG	<i>fet3b</i> <i>promoter</i>	1533515	<i>M. lusitanicus</i>	Δ fet3b Δ frt1b deletion
Fet3bP6	CAAGTACCAATGCTGAGGCAT GAACTGAACGGATGGCTCAG CA	<i>fet3b</i> <i>promoter</i>	1533515	<i>M. lusitanicus</i>	Δ fet3b Δ frt1b deletion, overlap with pyrG
Fet3bP7	AACTTACTCGACAGGGAAACT CC	<i>fet3b</i> <i>promoter</i>	1533515	<i>M. lusitanicus</i>	Δ fet3b Δ frt1b 5' junction PCR and whole locus PCR M2Y 5' junction PCR
pY-F	TTCTGAAACGATAATAAAACAAA GAGGAAGG	<i>fet3b</i> <i>promoter</i>	1533515	<i>M. lusitanicus</i>	Yeast promoter PCR
pY-R	TGCATAGAGTAATAAAGTGAAA GAAGAAGG	<i>fet3b</i> <i>promoter</i>	1533515	<i>M. lusitanicus</i>	Yeast promoter PCR
Ftr1aP1	AGGTCTTGAAGCCGTTGTCT	<i>ftr1a</i>	1461375	<i>M. lusitanicus</i>	RT-qPCR
Ftr1aP2	AGATAGCCAACCAAGGCACC	<i>ftr1a</i>	1461375	<i>M. lusitanicus</i>	RT-qPCR
ftr1aF-pyrG	TAGCATGGCCAGTGTACGTTGC CTTTGTCCAACACCTTA	<i>ftr1a</i>	1461375	<i>M. lusitanicus</i>	Δ fet3a Δ frt1a deletion, overlap with pyrG
ftr1aR	CTAATGCACCCAGATGTAGCTG T	<i>ftr1a</i>	1461375	<i>M. lusitanicus</i>	Δ fet3a Δ frt1a deletion

ftr1a-out	GGTTGGATTCTTCATCTTCTGC	<i>ftr1a</i>	1461375	<i>M. lusitanicus</i>	Δ fet3a Δ ftr1a whole locus PCR, Y2M whole locus PCR
Ftr1a	GTCTGGTTTTCTTTCTTCAGC	<i>ftr1a</i>	1461375	<i>M. lusitanicus</i>	M2Y whole locus PCR
Ftr1bP1	CGAGACGACAGAAGCATCCA	<i>ftr1b</i>	1533506	<i>M. lusitanicus</i>	RT-qPCR
Ftr1bP1	AATGCAGCACCTACCCAGAC	<i>ftr1b</i>	1533506	<i>M. lusitanicus</i>	RT-qPCR
ftr1bF-pyrG	CGATAGCATGGCCAGTGTACG TCTGGTTTTCTTTCTTCAGC	<i>ftr1b</i>	1533506	<i>M. lusitanicus</i>	Δ fet3b Δ ftr1b deletion, overlap with pyrG
ftr1bR	CACAAGGTTTCAGTGGGCTTTA	<i>ftr1b</i>	1533506	<i>M. lusitanicus</i>	Δ fet3b Δ ftr1b deletion
ftr1b-out	CTACAATCATACCTCGGGAAAG TG	<i>ftr1b</i>	1533506	<i>M. lusitanicus</i>	Δ fet3b Δ ftr1b whole locus PCR, M2Y whole locus PCR
ftr1bF	CGTTGCCTTTGTCCAACACCTT A	<i>ftr1b</i>	1533506	<i>M. lusitanicus</i>	Y2M whole locus PCR
Fet3amcP1	CTTTCCATCTTCACGGTCACG	<i>fet3a</i>	5026	<i>M. circinelloides</i>	RT-qPCR
Fet3amcP2	ACCACTAAGGTCAAGTCCAG	<i>fet3a</i>	5026	<i>M. circinelloides</i>	RT-qPCR
Fet3bmcP1	ATCATTCGATTCCGAGCAGAC	<i>fet3b</i>	3199	<i>M. circinelloides</i>	RT-qPCR
Fet3bmcP2	GCAGCATTACCAGTACCTGAG	<i>fet3b</i>	3199	<i>M. circinelloides</i>	RT-qPCR
Ftr1amcP1	TCTTGGTTGGAACAACACTG	<i>ftr1a</i>	5025	<i>M. circinelloides</i>	RT-qPCR
Ftr1amcP2	TTCAGCCTTGCGAATAGCAG	<i>ftr1a</i>	5025	<i>M. circinelloides</i>	RT-qPCR
Ftr1bmcP1	AGCCTTTGCCATCAAACCAGC	<i>ftr1b</i>	3200	<i>M. circinelloides</i>	RT-qPCR

Ftr1bmcP2	TTATCGGTGGTGTATCTCTGG	<i>ftr1b</i>	3200	<i>M. circinelloides</i>	RT-qPCR
Tfc1mcP1	GGCGAGATTGTGGAAGACGA	<i>tfc1</i>	1538053	<i>M. lusitanicus</i>	RT-qPCR
Tfc1mcP2	GGAAATCGGCCAGCGATCTA	<i>tfc1</i>	1538053	<i>M. lusitanicus</i>	RT-qPCR
Tfc1P1	CGAAGATGATGCACCATGGCA	<i>tfc1</i>	5396	<i>M. circinelloides</i>	RT-qPCR
Tfc1P2	CAAAGTCATCATCGTCGTCAGGT	<i>tfc1</i>	5396	<i>M. circinelloides</i>	RT-qPCR
pyrGR2	ATCCCACCAGAAGGAGTACATGG	<i>pyrG</i>	1355982	<i>M. circinelloides</i>	pyrG 5' junction PCR
pyrG-R	GTACACTGGCCATGCTATCG	<i>pyrG</i>	1355982	<i>M. circinelloides</i>	pyrG marker PCR
pyrG-F	TGCCTCAGCATTGGTACTTG	<i>pyrG</i>	1355982	<i>M. circinelloides</i>	pyrG marker PCR

Supplementary Table 10. List of primers used in this work.