

Name	Forward (F) (5'-3') <sup>a</sup>	Reverse (R) (5'-3')
<b>Oligonucleotides used for expression vector construction</b>		
pALACE- <i>MSMEG_6762</i>	CGGGATCCTTGACGTTGTGTG GGTGACCGTGA	CCATCGATATGTCAGTCCTCCTT GAGCGGTTCG
pALACE- <i>MSMEG_5583</i>	TGCCTTAAGATGTGTCTACTTGT CGTACCCGTCT	AATTCCATATGTTGCGTTGATCC GTGGCCCAATTGT
pALACE- <i>MSMEG_1756</i>	TGCCTTAAGGAGGTTGCGTTAG GCATGCCCGAAG	AATTCCATATGGCAGTCAGGAC GCCGTTTGGCACA
pALACE- <i>MSMEG_5876</i>	TGCCTTAAGTCTACTGCAGCAA TGTGTGCCAGGG	AATTCCATATGCGACGAGAACT AGTACGACTTGCC
pALACE- <i>MSMEG_3404</i>	TGCCTTAAGTTCTGCGATGATGG GGTCATGACGT	AATTCCATATGTCTCGTCGCTCA ACCTAGTTGGCTG
pALACE- <i>MSMEG_1275</i>	TGCCTTAAGGGTGGCGTGACAG GAGCATCCGATC	AATTCCATATGCGAGCCACACT GAGAATCACCCGT
pALACE- <i>MSMEG_2148</i>	TGCCTTAAGGAGGAGCAAAGTG TGTGGTTCAGTT	AATTCCATATGCGTGAGCGCTAT TTCCCTTTTGGTT
pNIT- <i>MSMEG_6762</i>	CGCATATGGAATTCATGTGGGTG ACCGTGATCGACGAG	CGCATGCGGATCCGTCCTCCTT GAGCGGTTCGGATGA
<b>Oligonucleotides used for site directed mutagenesis</b>		
6762 <sub>L18A</sub>	GCGCTCTTCCACGCGGTAGCCG ACCGCACGAGG	CCTCGTGCGGTTCGGCTACCGCG TGGAAGAGCGC
6762 <sub>R24A</sub>	CTCGCCGACCGCACGGTACGCG ACATCATGCGC	GCGCATGATGTGCGGTACCGTG CGGTCGGCGAG
6762 <sub>H54A</sub>	GCGGCGGTGCAGAAGGTAGTTG CGGTGCTGGAG	CTCCAGCACCGCAACTACCTTC TGCACCGCCGC
6762 <sub>L58A</sub>	GAAGCATGTTGCGGTGGTAGAG AAAGCCGGCCTG	GCAGGCCGGCTTTCTCTACCAC CGCAACATGCTTC
1275 <sub>H258A</sub>	GAACAACCCGATCGACGTAGTG CTGCCCTGGTCAC	GTGACCAGGGCAGCACTACGTC GATCGGGTTGTTC
1275 <sub>N272A</sub>	TATCGACGGCCTGGCCGTACTG GTGCTGGCGTGCG	CGCACGCCAGCACCAGTACGGC CAGGCCGTCGATA
1275 <sub>N281A</sub>	GGCGTGCGCGCGCTGCGTAGGC GACAAGGGTGGC	CGCCACCCTTGTCGCCCTACGCA GCGCGCGCACGCC
<b>Oligonucleotides used for knockout and verification</b>		
KO1275-1	CGGGATCCGCGAACTTCTTCAG CGACAGGTCAT	AGATCTGCCACCCCCATGTCGG TGCACTGCG
KO1275-2	TGCACCGACATGGGGTGGCAG ATCTTCTCAGTGTGGCTCGAA ACCCG	GGGGTACCGATTTCACCACGAT GTCGTTGGGCG
1275veri	CGCTGTCGGTTCCTTCGTGATA AT	TGTACATCGACTCTCTTCTCAGC CC
<b>Cloning and protein purification</b>		
pET6762	CGGAATTCGTTGTGTGGGTGAC CGTGATCGACG	CCCAAGCTTTCAGTCCTCCTTG AGCGGTTTCGGAT

pET1275	CGGAATTCGTGACAGGAGCATC CGATCCGCTGCTA	ATAAGAATGCGGCCGCTACGGG TTTCGAGCCACAC
<b>Oligonucleotides used for EMSA</b>		
<i>MSMEG_1275p1</i>	GGACGCCATGTTGGATGCCATT GCC	CACGAAGGGAACCGACAGCGT GGCC
<i>MSMEG_1275p2</i>	GATGCCATTGCCAGAAGCGCTC TCG	GACGAGTACTGGGCCGCTCTGG ACG
<i>MSMEG_1275p3</i>	GTCGGACAGCGTGCGGATCACC GGC	GGAACCGACAGCGTGGCCCAA CTTG

Table S2. Oligonucleotides used for RT-PCR, cloning (restriction sites are underlined and in bold), site directed mutagenesis (target mutated nucleotides are underlined), knockout and verification (restriction sites are underlined), and EMSA.