**Table S5.** End-reads (141) from the mother Tcr metagenome for which BLASTX hits contained the regular expressions *conjugative*, *transposon*, *tn916*, *integrase*, *recombinase*, *excisionase*, *mobilization* and *resistance* and therefore were predicted to be located in MGE (31 end-reads in bold letters were assigned below order level and therefore removed from their initial assignments to the group with no hits in figure 2B).

|  |
| --- |
| Query end-read |
| Query= tetW\_FWF674.PCC1F.W1 |
| Query= tetW\_FWF674.PCC1R.W1 |
| Query= tetW\_FWF682.PCC1F.W2 |
| Query= tetW\_FWF682.PCC1R.W2 |
| Query= tetW\_FWF506.PCC1F.W3 |
| **Query= tetW\_17\_T7pro.W4** |
| Query= tetW\_FWF755.PCC1R.w7 |
| Query= tetW\_FWF388..PCC1F.w8 |
| Query= tetW\_FWF471.PCC1F.W14 |
| Query= tetW\_FWF592.PCC1F.W16 |
| Query= tetW\_FWF592.PCC1R.W16 |
| Query= tetW\_FWF624.PCC1F.w18 |
| Query= tetW\_23-PCC1R.w21 |
| **Query= tetO\_390.PCC1R** |
| Query= tetO\_392.PCC1F |
| **Query= tetO\_395.PCC1R** |
| Query= tetO\_397.PCC1F |
| Query= tetO\_397.PCC1R |
| **Query= tetO\_398.PCC1F** |
| Query= tetO\_403.PCC1R |
| **Query= tetO\_405.PCC1F** |
| Query= tetO\_411.PCC1F |
| Query= tetO\_415.PCC1F |
| Query= tetO\_419.PCC1R |
| Query= tetO\_421.PCC1R |
| Query= tetO\_429.PCC1F |
| Query= tetO\_432.PCC1R |
| **Query= tetO\_435.PCC1R** |
| **Query= tetO\_436\_32-T7pro** |
| Query= tetO\_443.PCC1F |
| Query= tetO\_444.PCC1F |
| Query= tetO\_445.PCC1F |
| Query= tetO\_452.PCC1R |
| Query= tetO\_459.PCC1F |
| **Query= tetO\_464.PCC1F** |
| Query= tetO\_464.PCC1R |
| Query= tetO\_482\_24-T7pro |
| Query= tetO\_486.PCC1F |
| **Query= tetO\_486.PCC1R** |
| Query= tetO\_487.PCC1F |
| Query= tetO\_491.PCC1F |
| Query= tetO\_492.PCC1R |
| Query= tetO\_493.PCC1R |
| Query= tetO\_494.PCC1F |
| **Query= tetO\_494.PCC1R** |
| Query= tetO\_501.PCC1R |
| Query= tetO\_512\_49-PCC1R |
| Query= tetO\_515.PCC1F |
| Query= tetO\_516.PCC1F |
| Query= tetO\_517.PCC1F |
| Query= tetO\_527.PCC1R |
| Query= tetO\_530.PCC1R |
| Query= tetO\_532.PCC1F |
| **Query= tetO\_533.PCC1F** |
| **Query= tetO\_533.PCC1R** |
| Query= tetO\_539\_29-PCC1R |
| Query= tetO\_554.PCC1F |
| Query= tetO\_554.PCC1R |
| Query= tetO\_555.PCC1R |
| Query= tetO\_556.PCC1F |
| Query= tetO\_556.PCC1F |
| Query= tetO\_556\_36-PCC1R |
| Query= tetO\_562.PCC1R |
| **Query= tetO\_566.PCC1R** |
| Query= tetO\_571.PCC1F |
| Query= tetO\_572.PCC1R |
| Query= tetO\_579.PCC1F |
| Query= tetO\_588.PCC1F |
| Query= tetO\_589.PCC1R |
| Query= tetO\_603.PCC1F |
| **Query= tetO\_605.PCC1F** |
| Query= tetO\_608.PCC1R |
| Query= tetO\_615.PCC1R |
| Query= tetO\_611.PCC1F |
| **Query= tetO\_619.PCC1R** |
| **Query= tetO\_620.PCC1F** |
| **Query= tetO\_620.PCC1R** |
| Query= tetO\_622.PCC1F |
| Query= tetO\_623.PCC1R |
| Query= tetO\_629.PCC1F |
| Query= tetO\_630.PCC1R |
| Query= tetO\_635.PCC1F |
| **Query= tetO\_637.PCC1F** |
| Query= tetO\_638.PCC1F |
| Query= tetO\_638.PCC1R |
| Query= tetO\_646.PCC1F |
| **Query= tetO\_647.PCC1R** |
| Query= tetO\_648.PCC1F |
| Query= tetO\_648.PCC1R |
| Query= tetO\_655.PCC1F |
| **Query= tetO\_663.PCC1R** |
| **Query= tetO\_672\_48-T7pro** |
| Query= tetO\_676.PCC1R |
| **Query= tetO\_683.PCC1F** |
| Query= tetO\_684.PCC1R |
| Query= tetO\_685.PCC1R |
| Query= tetO\_691.PCC1F |
| Query= tetO\_694.PCC1R |
| Query= tetO\_698.PCC1F |
| Query= tetO\_699.PCC1F |
| **Query= tetO\_709.PCC1F** |
| **Query= tetO\_709.PCC1R** |
| Query= tetO\_710\_42-PCC1F |
| Query= tetO\_722.PCC1F |
| Query= tetO\_722.PCC1R |
| **Query= tetO\_723.PCC1F** |
| Query= tetO\_727.PCC1R |
| Query= tetO\_733.PCC1R |
| Query= tetO\_734.PCC1R |
| Query= tetO\_735.PCC1F |
| Query= tetO\_738.PCC1F |
| **Query= tetO\_739.PCC1F** |
| Query= tetO\_740.PCC1R |
| Query= tetO\_743.PCC1R |
| Query= tetO\_746.PCC1F |
| **Query= tetO\_748.PCC1R** |
| **Query= tetO\_750.PCC1R** |
| Query= tetR\_404.PCC1F |
| **Query= tetR\_412.PCC1F** |
| Query= tetR\_428.PCC1R |
| Query= tetR\_460.PCC1R |
| Query= tetR\_463.PCC1F |
| Query= tetR\_484.PCC1F |
| Query= tetR\_484.PCC1R |
| Query= tetR\_495.PCC1R |
| Query= tetR\_503.PCC1F |
| Query= tetR\_504\_60.T7pro |
| Query= tetR\_541.PCC1R |
| Query= tetR\_551\_55.PCC1R |
| Query= tetR\_584.PCC1F |
| Query= tetR\_604.PCC1F |
| **Query= tetR\_612.PCC1F** |
| **Query= tetR\_632.PCC1R** |
| Query= tetR\_636.PCC1F |
| Query= tetR\_659.PCC1F |
| Query= tetR\_659.PCC1R |
| Query= tetR\_679.PCC1R |
| Query= tetR\_686.PCC1F |
| Query= tetO\_706.PCC1F |
| Query= tetR\_718.PCC1F |
| Query= tetR\_725\_53.PCC1R |