



**Figure S1.** Plasmid construct developed and used for the genetic complementation of *E. tenella*. The plasmids contain a double cassette: *mCitrine* – green arrow – flanked by 5' *EtMIC1* and 3' *EtMIC1* – green arrows – and *EtMIC2* and *EtMCP2* fused to *mCherry* – yellow arrow + red arrow – flanked by 5' *EtMIC2* and 3' *EtMIC3* – final purple arrows –.

**Table S1.** Primers used in the study

| Name                                      | Sequence                           |
|-------------------------------------------|------------------------------------|
| <b>Expression in <i>E. tenella</i></b>    |                                    |
| Fw-MIC9-XbaI                              | CC <u>TCTAGAA</u> AGTTTTCGCGAGCC   |
| Rv-MIC9-XbaI                              | CGT <u>TCTAGAC</u> CTCTGTAACGCAACG |
| <b>Expression as recombinant proteins</b> |                                    |
| Fw-MCP2.1-NcoI                            | GACCATGGCAGACAAATGCCGTGAGCA        |
| Rv-MCP2.1-NotI                            | TTGCGGCCGCCTTAGCGTGCCTAAT          |
| Fw-MCP3.3-NcoI                            | GACCATGGCAAAAGAATCCGGGAGTCTGC      |
| Rv-MCP3.3-NotI                            | TTGCGGCCGCTGCTGCGACGTTGC           |
| Fw-MCP4.2-NcoI                            | GACCATGGCAGACAAATGCCGTGAGCA        |
| Rv-MCP4.2-NotI                            | TTGCGGCCGCCTTAGCGTGCCTAAT          |
| Fw-MCP4.3-NcoI                            | TGCCATGGCAGCTGGACAGACCTATGAGC      |
| Rv-MCP4.3-NotI                            | TTGCGGCCGCGCCATGCAGGCATTT          |
| Fw-MCP5.2-NcoI                            | TGCCATGGCAGCGGCGGCCAGCGGGCT        |
| Rv-MCP5.2-NotI                            | TTGCGGCCGCGCACATAGCGTCCGT          |