

**Additional file 3: Table S3 Amino acid sequence identity (%; blue) and similarity (%; red) between HpDGAT2s and CrDGAT2s.**

| Gene            | <i>HpDGAT2A</i> | <i>HpDGAT2B</i> | <i>HpDGAT2C</i> | <i>HpDGAT2D</i> | <i>HpDGAT2E</i> | <i>CrDGAT2A</i> | <i>CrDGAT2B</i> | <i>CrDGAT2C</i> | <i>CrDGAT2D</i> | <i>CrDGAT2E</i> |
|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| <i>HpDGAT2A</i> | 100             | 32              | 29              | 25              | 48              | 40              | 31              | 27              | 31              | 27              |
| <i>HpDGAT2B</i> | 42              | 100             | 33              | 32              | 28              | 28              | 54              | 48              | 36              | 39              |
| <i>HpDGAT2C</i> | 45              | 28              | 100             | 30              | 28              | 26              | 28              | 29              | 29              | 32              |
| <i>HpDGAT2D</i> | 32              | 33              | 33              | 100             | 33              | 30              | 31              | 31              | 49              | 30              |
| <i>HpDGAT2E</i> | 41              | 48              | 46              | 50              | 100             | 27              | 51              | 59              | 30              | 40              |
| <i>CrDGAT2A</i> | 55              | 44              | 40              | 47              | 40              | 100             | 29              | 30              | 33              | 28              |
| <i>CrDGAT2B</i> | 46              | 71              | 43              | 48              | 71              | 44              | 100             | 53              | 32              | 42              |
| <i>CrDGAT2C</i> | 43              | 68              | 45              | 46              | 73              | 45              | 70              | 100             | 30              | 41              |
| <i>CrDGAT2D</i> | 44              | 50              | 42              | 65              | 49              | 51              | 47              | 48              | 100             | 34              |
| <i>CrDGAT2E</i> | 42              | 58              | 47              | 46              | 59              | 46              | 63              | 60              | 53              | 100             |