***Supplemental Information***

**A Comparative in-silico analysis of autophagy proteins in ciliates**

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**Table S1**. **List of accession numbers of autophagy proteins in ciliates**.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Proteins | *Tetrahymena* *thermophila* | *Paramecium tetraurelia* | *Oxytricha trifallax* | *Ichthyophthirius multifiliis* | *Stylonychia lemnae* |
| Atg1Atg2Atg3Atg4Atg5Atg6Atg7Atg8Atg9Atg10Atg11Atg12Atg13Atg14Atg15Atg16Atg16LAtg18Vps15Vps34Vmp-1UVRAG | ndndTTHERM\_01050620TTHERM\_00012980TTHERM\_00622890TTHERM\_00011010TTHERM\_00526270TTHERM\_00622880TTHERM\_00011020TTHERM\_00494030TTHERM\_000455639TTHERM\_00138370TTHERM\_00522490TTHERM\_00037460TTHERM\_000780499ndTTHERM\_01016200ndndndndTTHERM\_00691620ndndTTHERM\_00614790TTHERM\_00577340TTHERM\_00543659TTHERM\_00649380TTHERM\_00628720nd | ndndGSPATT00018613001GSPATT00000653001GSPATT00032381001GSPATT00027262001GSPATT00009966001GSPATT00016554001GSPATT00003976001GSPATT00007114001GSPATT00029795001GSPATT00039312001GSPATT00000189001GSPATT00008726001GSPATT00037390001GSPATT00008226001GSPATT00012815001GSPATT00013195001GSPATT00019394001GSPATT00019297001GSPATT00015805001GSPATT00027839001GSPATT00002599001GSPATT00039589001GSPATT00001448001GSPATT00022734001GSPATT00015140001GSPATT00002727001GSPATT00001312001GSPATT00037476001GSPATT00029699001GSPATT00004799001GSPATT00007583001GSPATT00033828001GSPATT00011139001GSPATT00031859001GSPATT00028409001GSPATT00020835001GSPATT00037728001GSPATT00004842001GSPATT00016042001GSPATT00009773001ndndndndndndGSPATT00021619001GSPATT00027425001ndndGSPATT00022741001GSPATT00029706001GSPATT00038932001GSPATT00026656001GSPATT00022039001GSPATT00034458001GSPATT00031445001nd | ndndOXYTRI\_06717OXYTRI\_00763OXYTRI\_06906OXYTRI\_20407OXYTRI\_17161OXYTRI\_01553OXYTRI\_23932OXYTRI\_18949OXYTRI\_17764OXYTRI\_06903OXYTRI\_24789OXYTRI\_03397OXYTRI\_04222OXYTRI\_02617OXYTRI\_06951ndndndOXYTRI\_18637ndndndndOXYTRI\_20923OXYTRI\_00719OXYTRI\_14811OXYTRI\_14403OXYTRI\_14036OXYTRI\_18883OXYTRI\_23250OXYTRI\_00310OXYTRI\_13489 | ndndIMG5\_148300IMG5\_143150IMG5\_021070IMG5\_195560IMG5\_027770ndIMG5\_184550ndndndndndndndndndndndIMG5\_194800IMG5\_142140ndIMG5\_193880IMG5\_198170IMG5\_083720nd | ndndSTYLEM\_5006STYLEM\_548STYLEM\_8437STYLEM\_6052STYLEM\_7592STYLEM\_8080STYLEM\_127STYLEM\_8328STYLEM\_1555STYLEM\_17224STYLEM\_3514STYLEM\_13036ndndndndndndndndndSTYLEM\_5216STYLEM\_15702STYLEM\_6597STYLEM\_15893STYLEM\_561STYLEM\_20251STYLEM\_9113nd |
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nd: not determined