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| Cluster | Time of Activity | Types of Genes Expressed |
| ME3 | 9AM – 5PM  (daylight) | Photosystem II |
| ME6 | 1PM – 5PM  (peak daylight) | Photosystem II  carbohydrate transport |
| ME7 | 5PM – 9PM  (evening) | Glucose/arabinose dehydrogenase  Outer membrane starch binding  Phosphate transport  Iron transport  F-type ATPase  Spermidine/putrescine transport  Flagellin |
| ME8 | 9PM – 5AM  (night to dawn) | Photosystem I  Sugar transport |
| ME2 | 5PM – 1AM  (evening to night) | Sugar transport  Peptide/nickel transport  Bacteriorhodopsin |
| ME13 | 1AM – 5AM  (dawn) | Aerobic anoxygenic photosynthesis machinery  Nitrate/nitrite transport |
| Cluster | Time of Activity | Types of Genes Expressed |
| ME19 | 5PM - 9PM  (evening) | Cytochrome c oxidase |
| ME13 | 1PM - 5PM  (peak daylight) | Carbohydrate transport  Glucose/arabinose dehydrogenase  Chlorophyll a-b binding  DNA-directed RNA polymerase |
| ME10 | 9AM – 1PM  (morning) | Photosystem II  Peroxiredoxin  F-type ATPase |
| ME15 | 1AM – 5AM  (dawn) | Aerobic anoxygenic photosynthesis |
| ME4 | 9PM – 5AM  (night to dawn) | Aerobic anoxygenic photosynthesis |
| ME6 | 5PM – 1AM  (evening to night) | TCA cycle |
| ME14 | 5AM – 9AM  (morning) | Calvin cycle (no RuBisCO) |

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| Cluster | Time of Activity | Types of Genes Expressed |
| ME1 | 1AM – 5AM  (dawn) | RuBisCO  Type II secretion  Multiple photosynthesis types |
| ME4 | 1AM – 9AM  (dawn to morning) | Carbohydrate degradation and transport  Photosystem II  DNA and RNA helicases  Outer membrane porins |
| ME3 | 5AM – 9AM  (morning) | Carbohydrate degradation and transport  Outer membrane porins  DNA-directed RNA polymerase |
| ME11 | 9AM – 5PM  (daytime) | Photosystem II |
| ME18 | 1PM – 9PM  (afternoon to evening) | Pyruvate metabolism  Amino acid metabolism  Chromosome segregation |
| ME16 | 1PM – 1AM  (afternoon to night) | Histones  Kinesin |