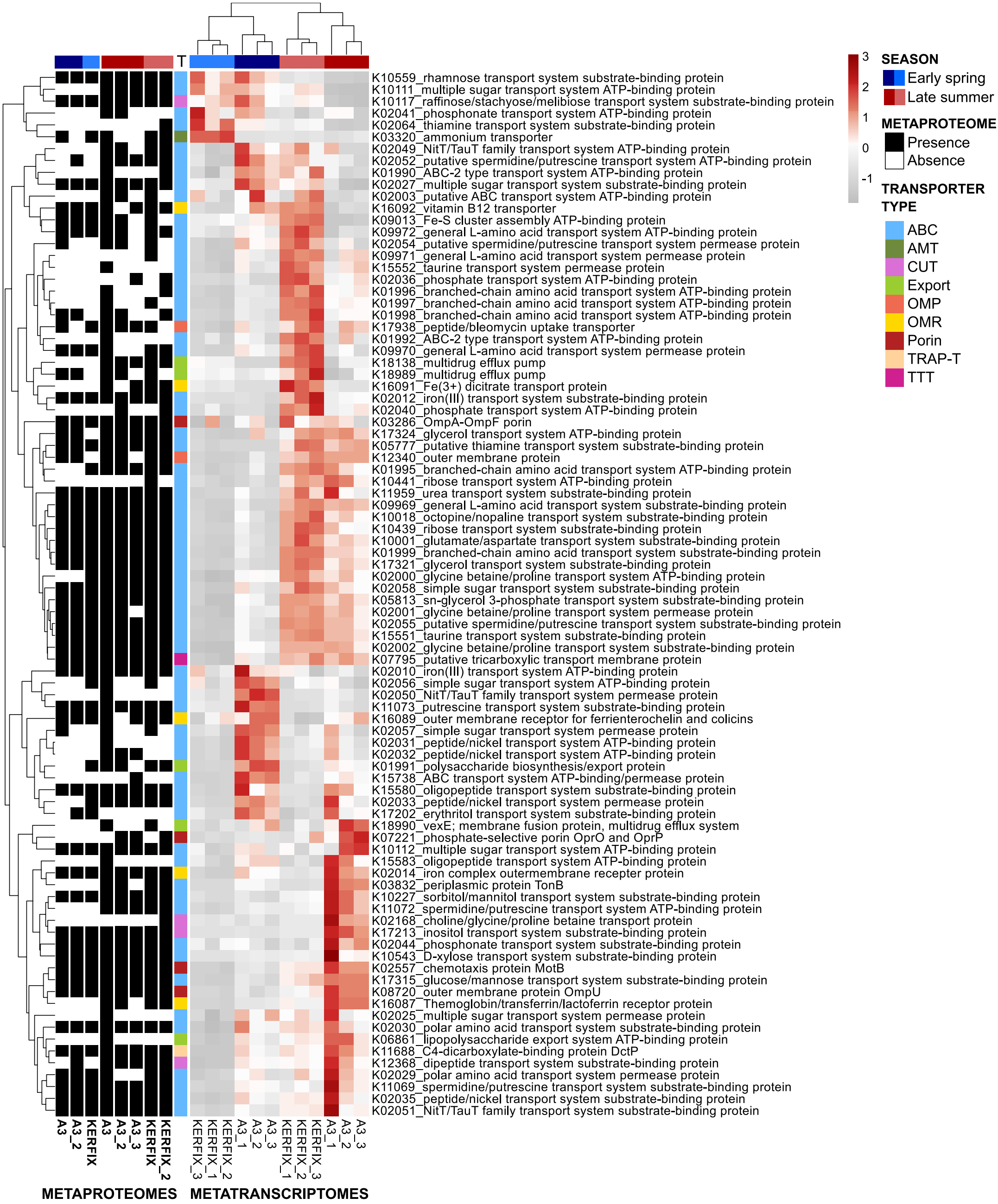
T
K10559_rhamnose transport system substrate-binding protein
K10111_multiple sugar transport system ATP-binding protein
K10117_raffinose/stachyose/melibiose transport system substrate-binding protein
K02041_phosphonate transport system ATP-binding protein
K02064_thiamine transport system substrate-binding protein
K03320_ammonium transporter
K02049_NitT/TauT family transport system ATP-binding protein
K02052_putative spermidine/putrescine transport system ATP-binding protein
K01990_ABC-2 type transport system ATP-binding protein
K02027_multiple sugar transport system substrate-binding protein
K02003_putative ABC transport system ATP-binding protein
K16092_vitamin B12 transporter
K09013_Fe-S cluster assembly ATP-binding protein
K09972_general L-amino acid transport system ATP-binding protein
K02054_putative spermidine/putrescine transport system permease protein
K09971_general L-amino acid transport system permease protein
K15552_taurine transport system permease protein
K02036_phosphate transport system ATP-binding protein
K01996_branched-chain amino acid transport system ATP-binding protein
K01997_branched-chain amino acid transport system ATP-binding protein
K01998_branched-chain amino acid transport system ATP-binding protein
K17938_peptide/bleomycin uptake transporter
K01992_ABC-2 type transport system ATP-binding protein
K09970_general L-amino acid transport system permease protein
K18138_multidrug efflux pump
K18989_multidrug efflux pump
K16091_Fe(3+) dicitrate transport protein
K02012_iron(III) transport system substrate-binding protein
K02040_phosphate transport system ATP-binding protein
K03286_OmpA-OmpF porin
K17324_glycerol transport system ATP-binding protein
K05777_putative thiamine transport system substrate-binding protein
K12340_outer membrane protein
K01995_branched-chain amino acid transport system ATP-binding protein
K10441_ribose transport system ATP-binding protein
K11959_urea transport system substrate-binding protein
K09969_general L-amino acid transport system substrate-binding protein
K10018_octopine/nopaline transport system substrate-binding protein
K10439_ribose transport system substrate-binding protein
K10001_glutamate/aspartate transport system substrate-binding protein
K01999_branched-chain amino acid transport system substrate-binding protein
K17321_glycerol transport system substrate-binding protein
K02000_glycine betaine/proline transport system ATP-binding protein
K02058_simple sugar transport system substrate-binding protein
K05813_sn-glycerol 3-phosphate transport system substrate-binding protein
K02001_glycine betaine/proline transport system permease protein
K02055_putative spermidine/putrescine transport system substrate-binding protein
K15551_taurine transport system substrate-binding protein
K02002_glycine betaine/proline transport system substrate-binding protein
K07795_putative tricarboxylic transport membrane protein
K02010_iron(III) transport system ATP-binding protein
K02056_simple sugar transport system ATP-binding protein
K02050_NitT/TauT family transport system permease protein
K11073_putrescine transport system substrate-binding protein
K16089_outer membrane receptor for ferrienterochelin and colicins
K02057_simple sugar transport system permease protein
K02031_peptide/nickel transport system ATP-binding protein
K02032_peptide/nickel transport system ATP-binding protein
K01991_polysaccharide biosynthesis/export protein
K15738_ABC transport system ATP-binding/permease protein
K15580_oligopeptide transport system substrate-binding protein
K02033_peptide/nickel transport system permease protein
K17202_erythritol transport system substrate-binding protein
K18990_vexE; membrane fusion protein, multidrug efflux system
K07221_phosphate-selective porin OprO and OprP
K10112_multiple sugar transport system ATP-binding protein
K15583_oligopeptide transport system ATP-binding protein
K02014_iron complex outermembrane recepter protein
K03832_periplasmic protein TonB
K10227_sorbitol/mannitol transport system substrate-binding protein
K11072_spermidine/putrescine transport system ATP-binding protein
K02168_choline/glycine/proline betaine transport protein
K17213_inositol transport system substrate-binding protein
K02044_phosphonate transport system substrate-binding protein
K10543_D-xylose transport system substrate-binding protein
K02557_chemotaxis protein MotB
K17315_glucose/mannose transport system substrate-binding protein
K08720_outer membrane protein OmpU
K16087_Themoglobin/transferrin/lactoferrin receptor protein
K02025_multiple sugar transport system permease protein
K02030_polar amino acid transport system substrate-binding protein
K06861_lipopolysaccharide export system ATP-binding protein
K11688_C4-dicarboxylate-binding protein DctP
K12368_dipeptide transport system substrate-binding protein
K02029_polar amino acid transport system permease protein
K11069_spermidine/putrescine transport system substrate-binding protein
K02035_peptide/nickel transport system substrate-binding protein
K02051_NitT/TauT family transport system substrate-binding protein
3
2
1
0
-1
SEASON
Early spring
Late summer
METAPROTEOME
Presence
Absence
TRANSPORTER TYPE
ABC
AMT
CUT
Export
OMP
OMR
Porin
TRAP-T
TTT
A3
A3_2
KERFIX
A3
A3_2
A3_3
KERFIX
KERFIX_2
KERFIX_3
KERFIX_1
KERFIX_2
A3_1
A3_2
A3_3
KERFIX_1
KERFIX_2
KERFIX_3
A3_1
A3_2
A3_3
METAPROTEOMES
METATRANSCRIPTOMES