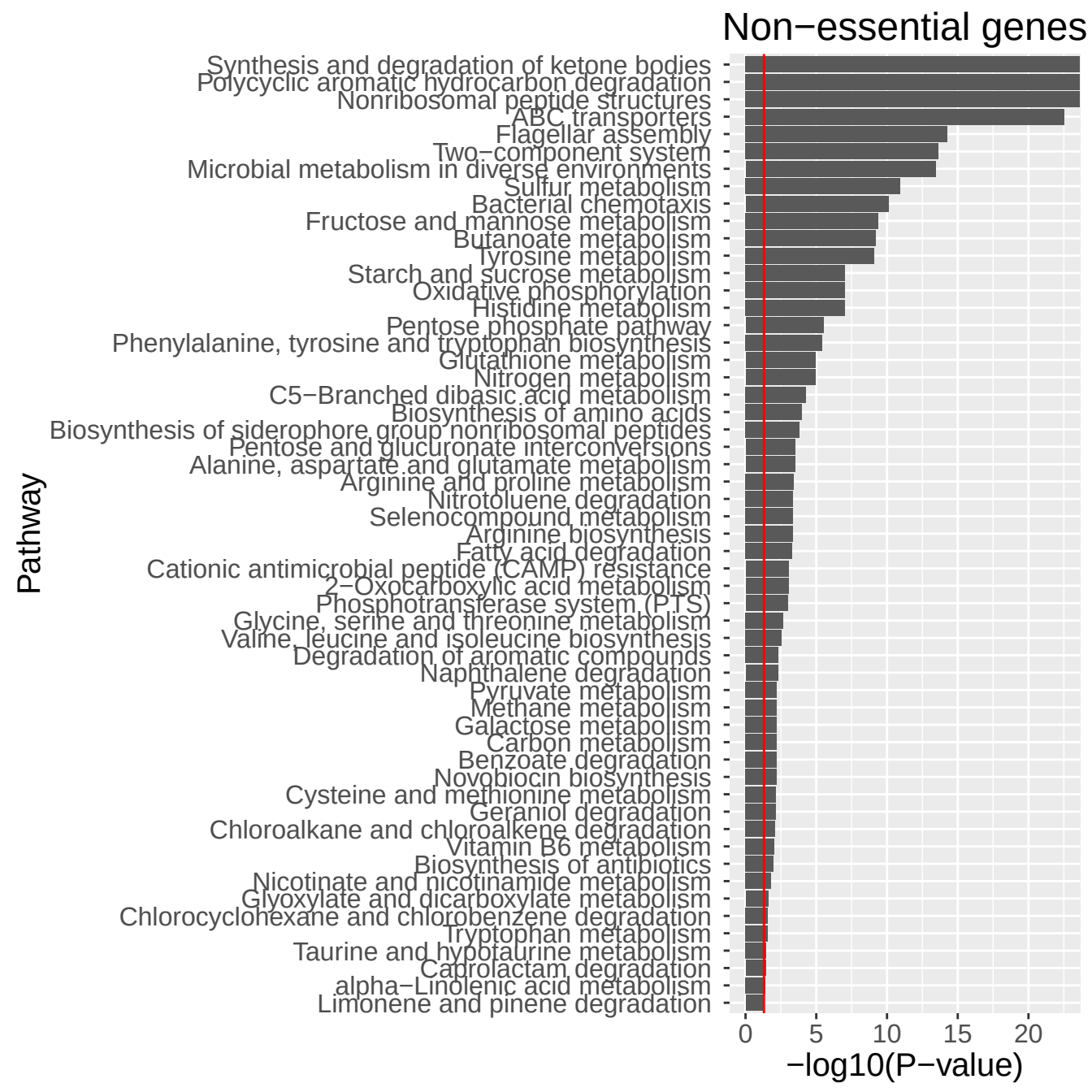
Non−essential genes
Synthesis and degradation of ketone bodies
Polycyclic aromatic hydrocarbon degradation
Nonribosomal peptide structures
ABC transporters
Flagellar assembly
Two−component system
Microbial metabolism in diverse environments
Sulfur metabolism
Bacterial chemotaxis
Fructose and mannose metabolism
Butanoate metabolism
Tyrosine metabolism
Starch and sucrose metabolism
Oxidative phosphorylation
Histidine metabolism
Pentose phosphate pathway
Phenylalanine, tyrosine and tryptophan biosynthesis
Glutathione metabolism
Nitrogen metabolism
C5−Branched dibasic acid metabolism
Biosynthesis of amino acids
Biosynthesis of siderophore group nonribosomal peptides
Pentose and glucuronate interconversions
Alanine, aspartate and glutamate metabolism
Arginine and proline metabolism
Nitrotoluene degradation
Selenocompound metabolism
Arginine biosynthesis
Fatty acid degradation
Cationic antimicrobial peptide (CAMP) resistance
2−Oxocarboxylic acid metabolism
Phosphotransferase system (PTS)
Glycine, serine and threonine metabolism
Valine, leucine and isoleucine biosynthesis
Degradation of aromatic compounds
Naphthalene degradation
Pyruvate metabolism
Methane metabolism
Galactose metabolism
Carbon metabolism
Benzoate degradation
Novobiocin biosynthesis
Cysteine and methionine metabolism
Geraniol degradation
Chloroalkane and chloroalkene degradation
Vitamin B6 metabolism
Biosynthesis of antibiotics
Nicotinate and nicotinamide metabolism
Glyoxylate and dicarboxylate metabolism
Chlorocyclohexane and chlorobenzene degradation
Tryptophan metabolism
Taurine and hypotaurine metabolism
Caprolactam degradation
alpha−Linolenic acid metabolism
Limonene and pinene degradation
Pathway
0
5
10
15
20
−log10(P−value)