


**NUCLEOBASE\_BIOSYNTHESIS, REACTOME\_NUCLEOBASE\_BIOSYNTHESIS**  REACTOME\_METABOLISM\_OF\_NUCLEOTIDES, REACTOME\_METABOLISM\_OF\_NUCLEOTIDES  
REACTOME\_PURINE\_RIBONUCLEOSIDE\_MONOPHOSPHATE\_BIOSYNTHESIS, REACTOME\_PURINE\_RIBONUCLEOSIDE\_MONOPHOSPHATE\_BIOSYNTHESIS