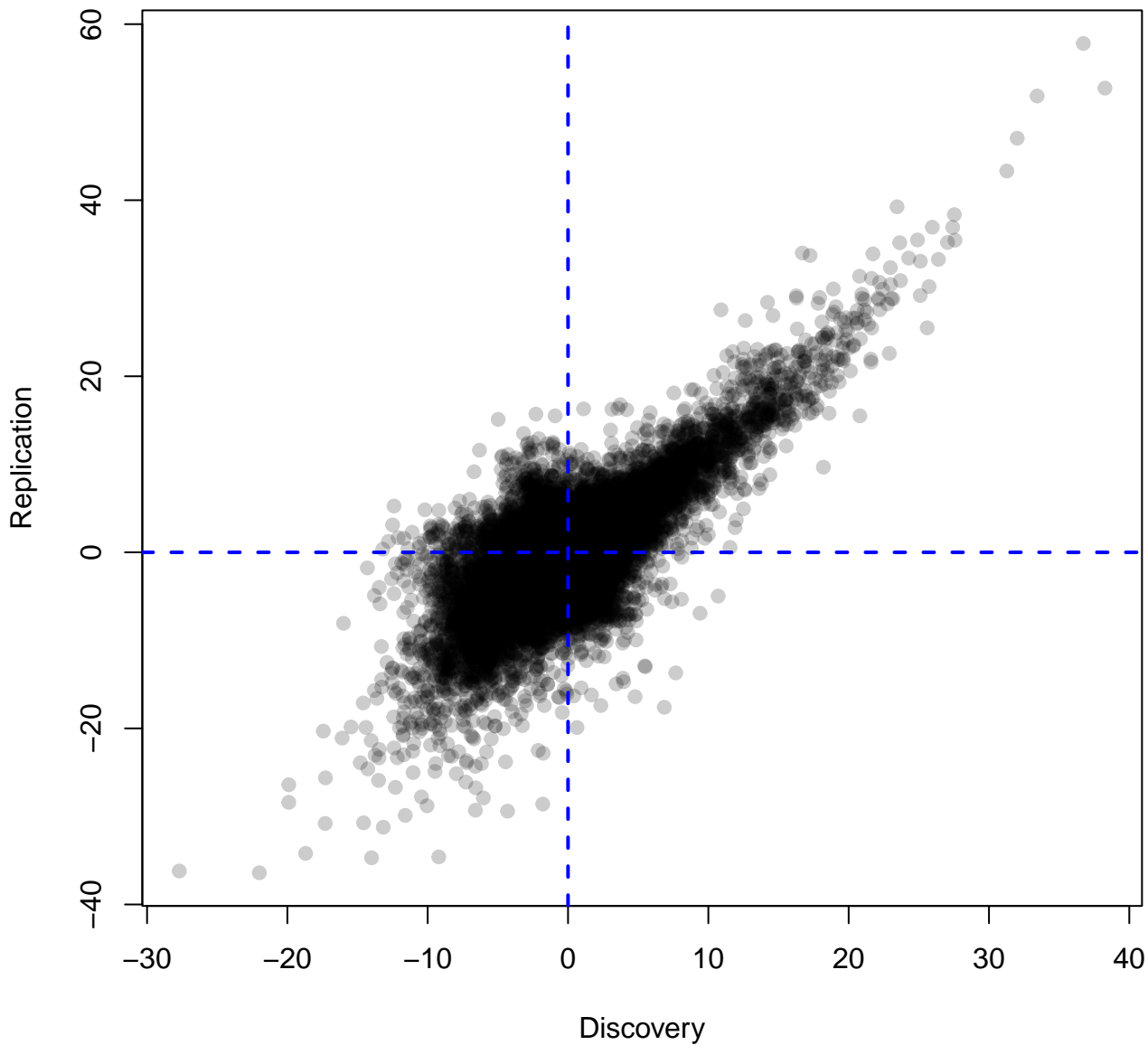
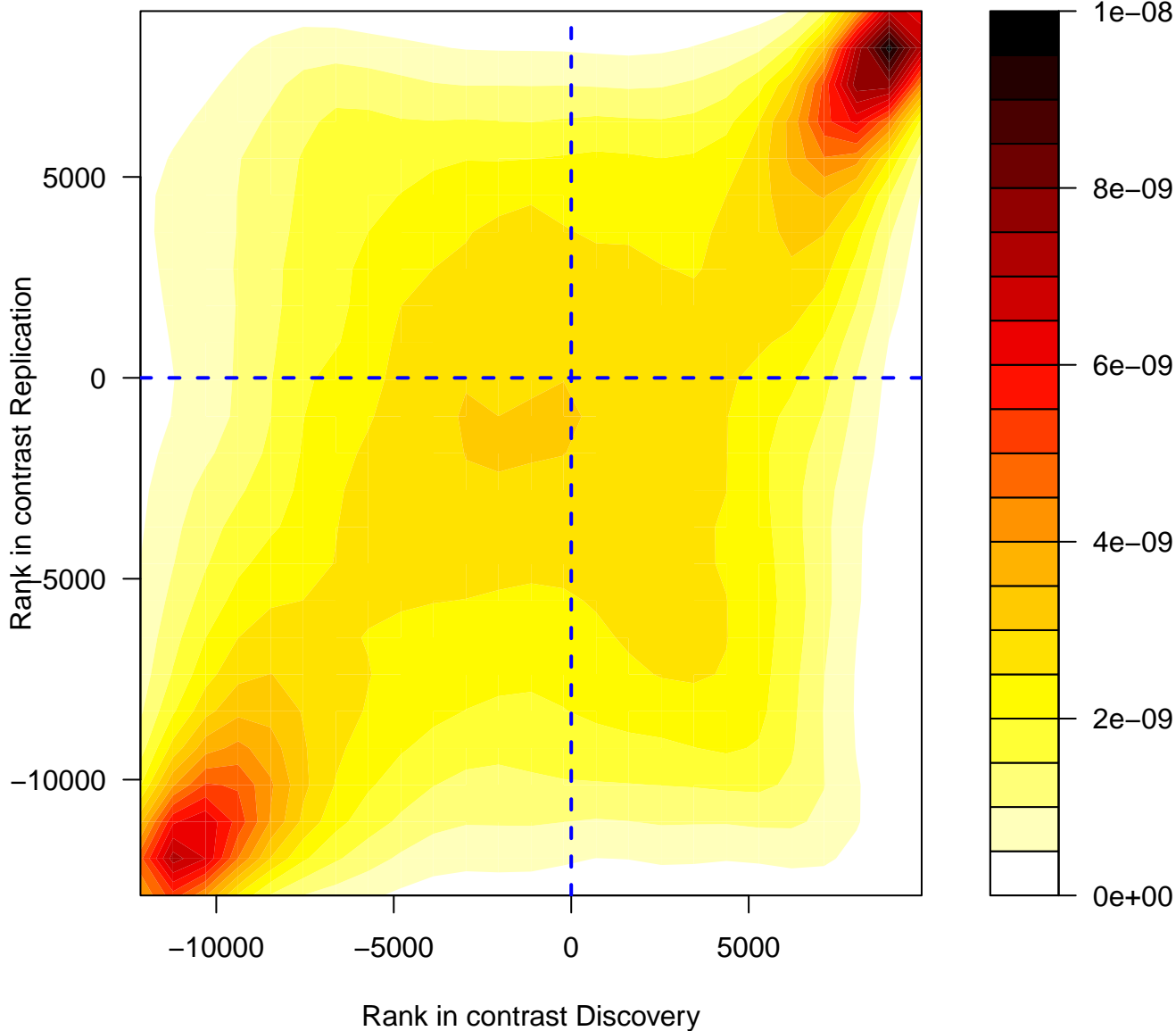


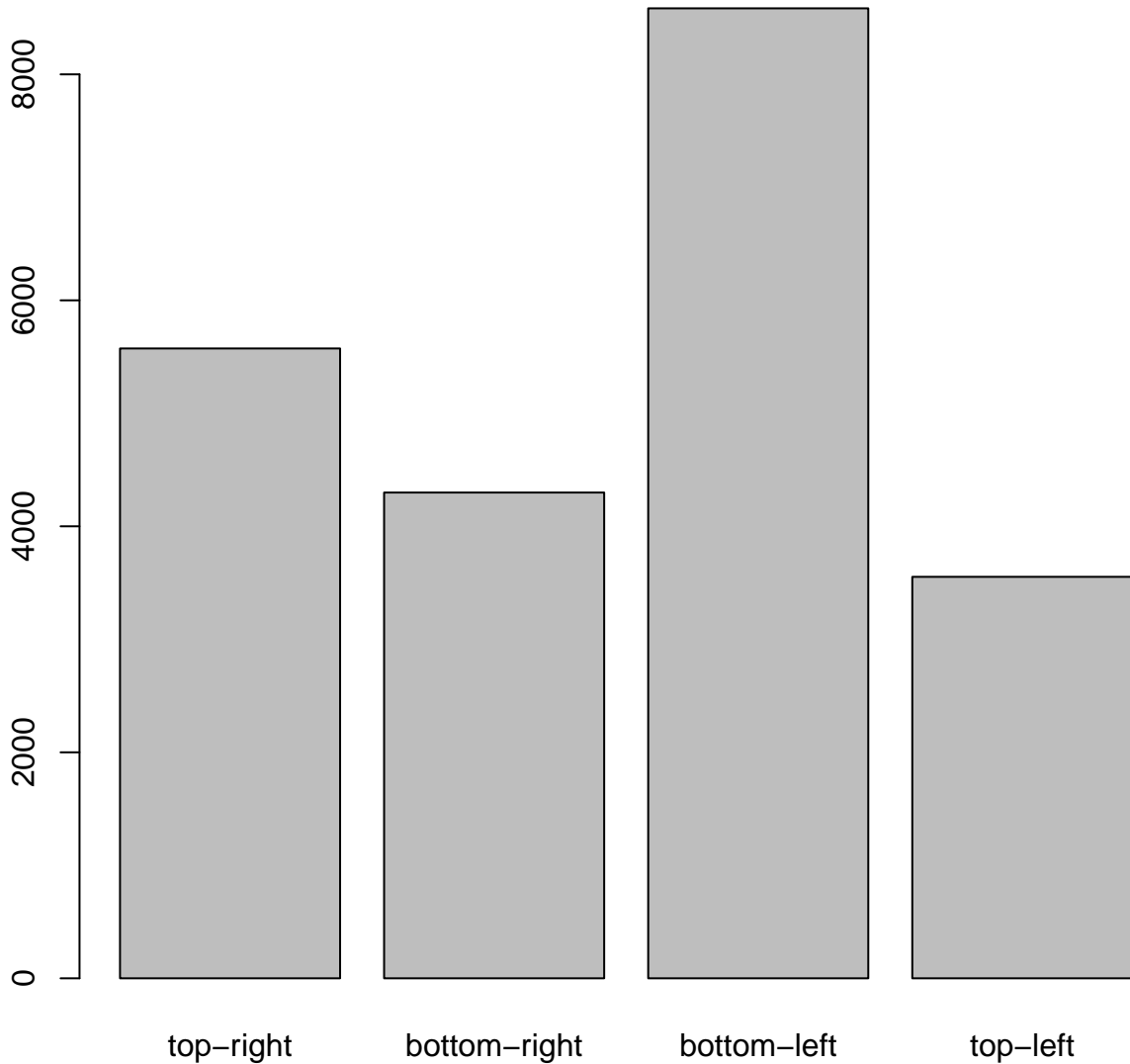
Scatterplot of all genes



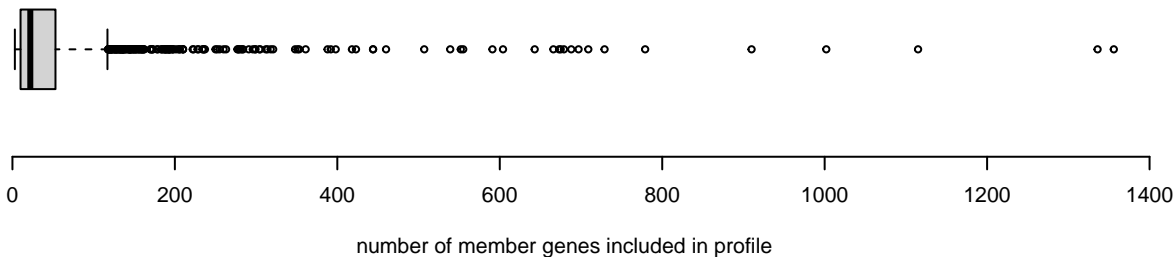
Rank-rank plot of all genes



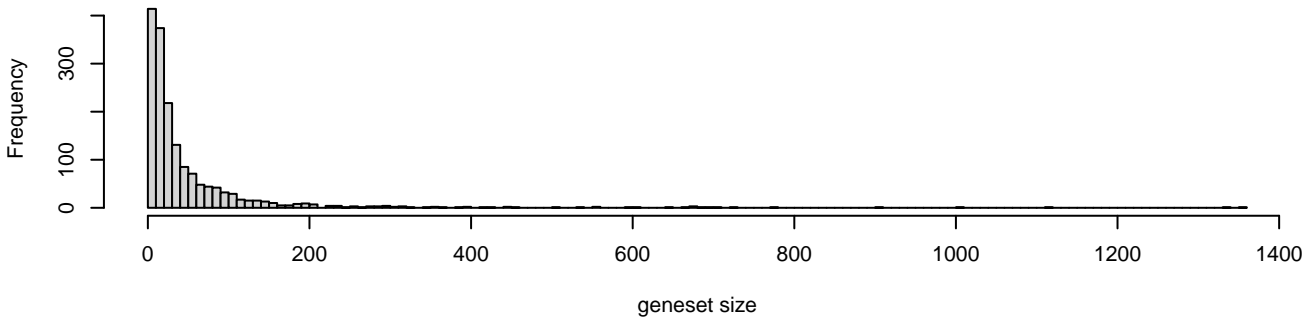
number of genes in each quadrant



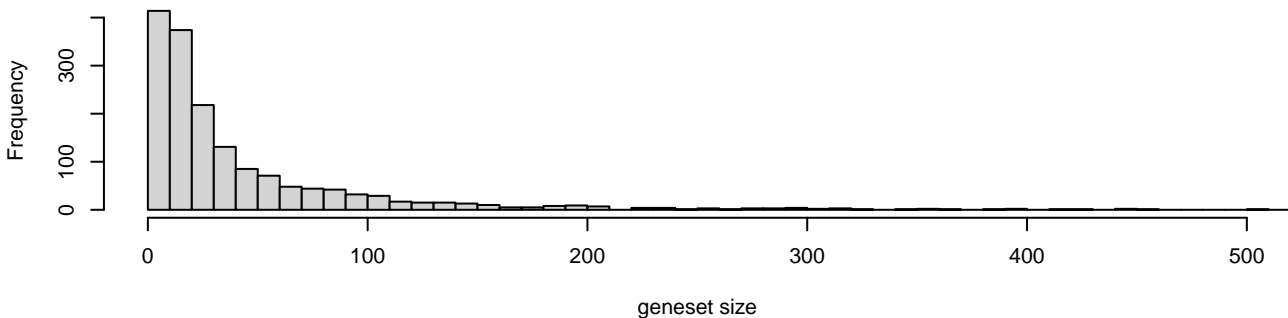
Gene set size



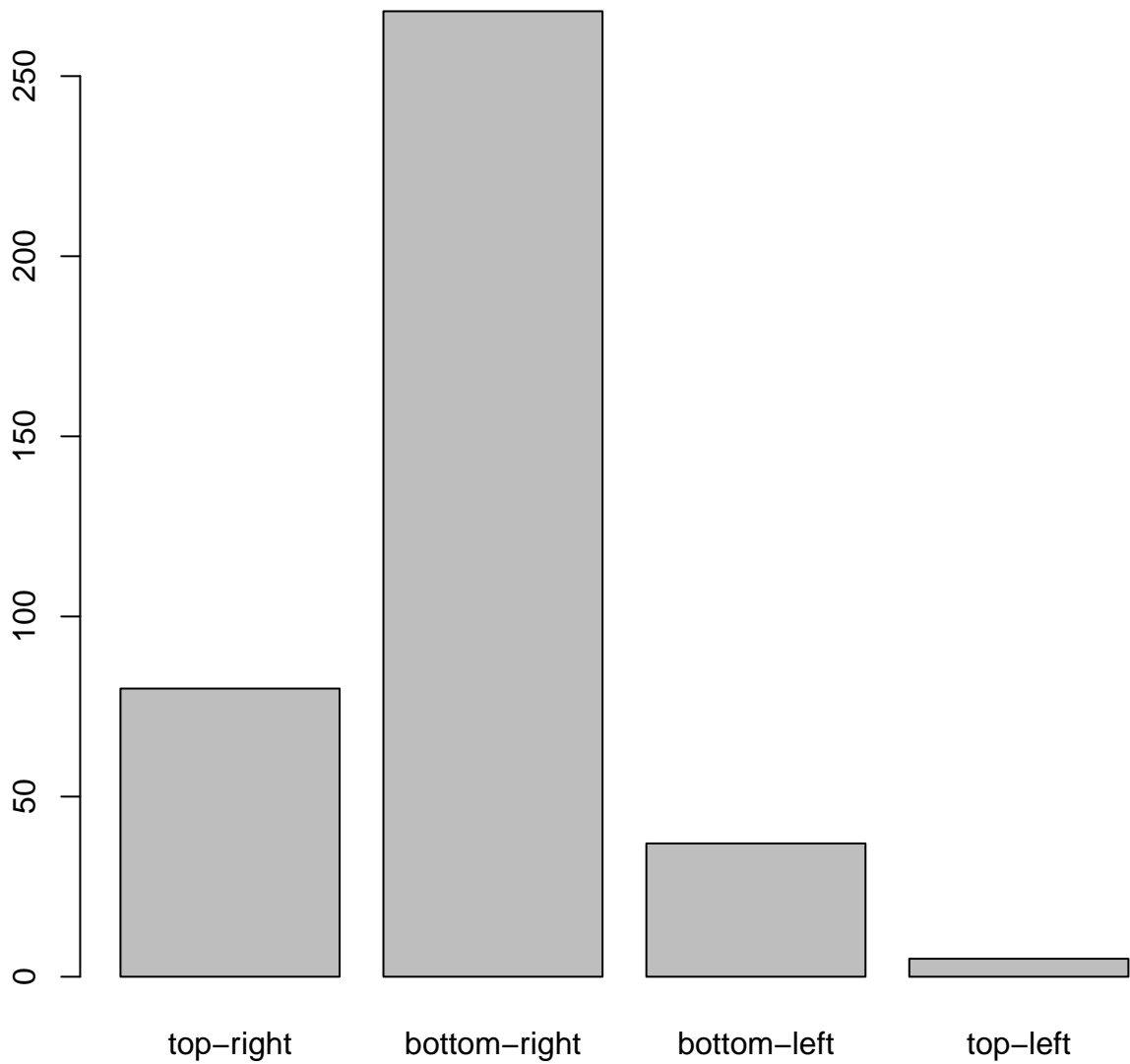
Histogram of geneset size



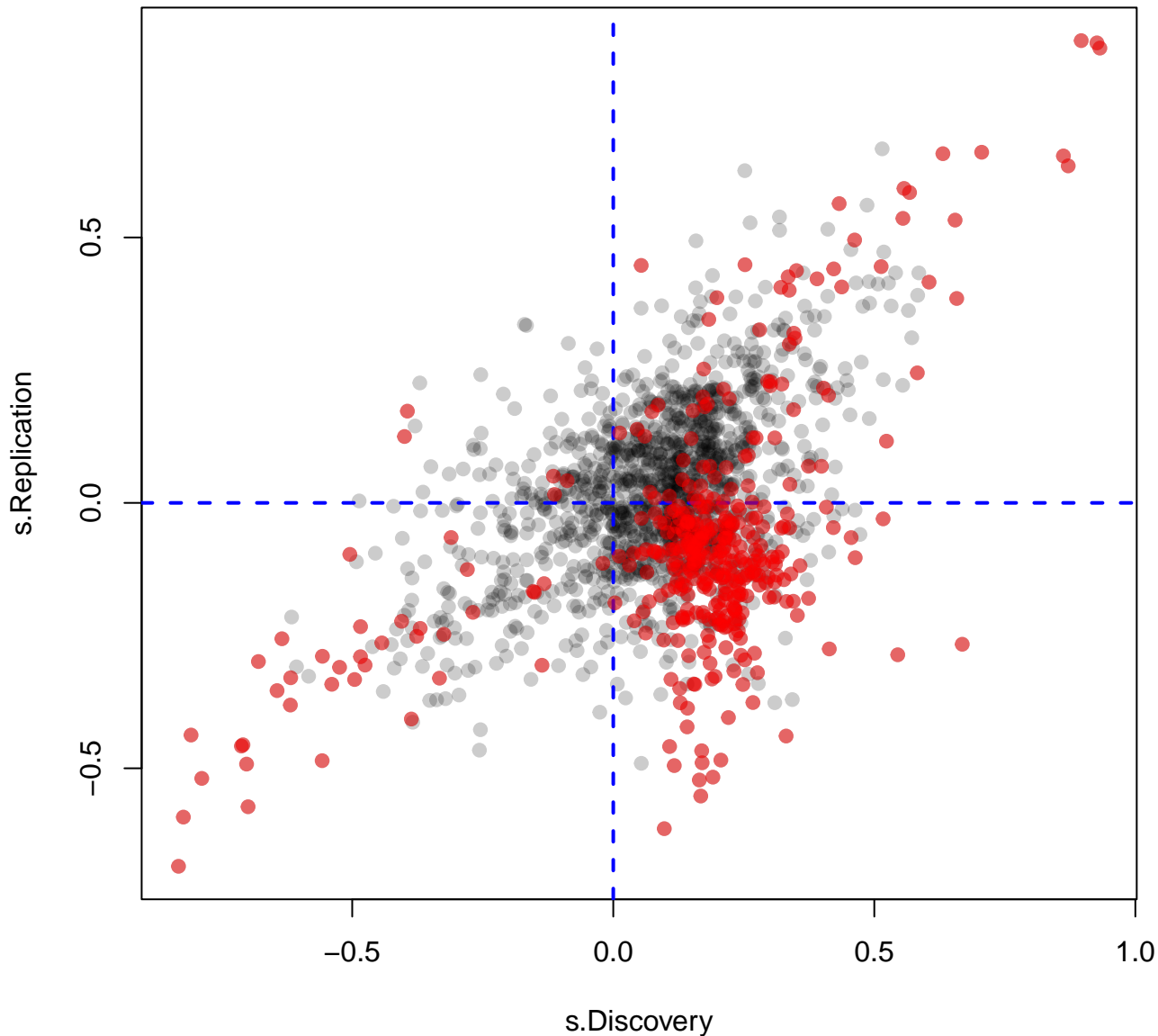
Trimmed histogram of geneset size



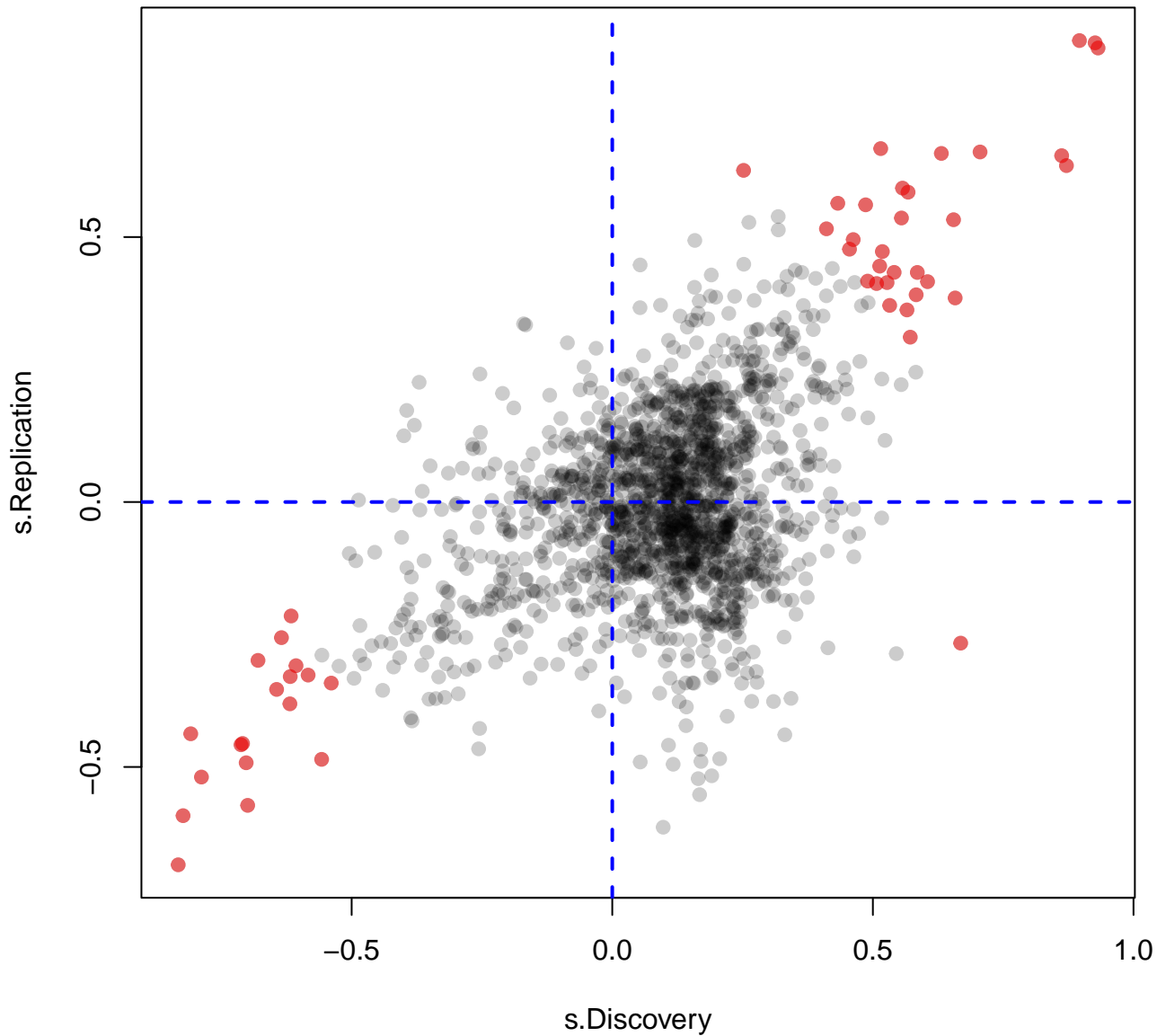
number of genesets FDR<0.05



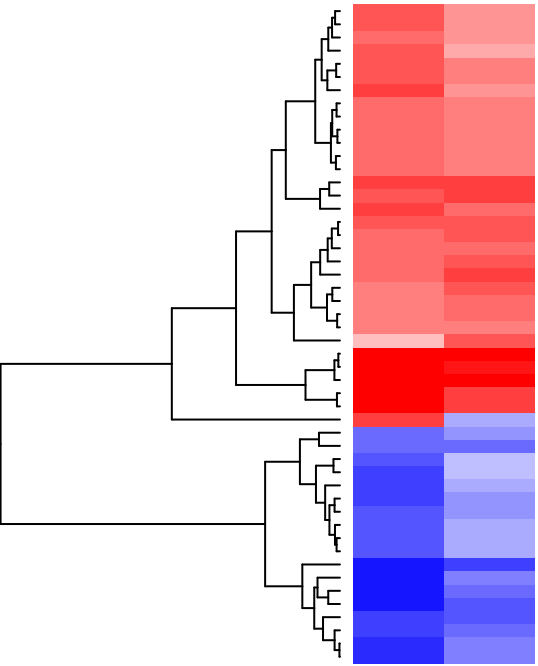
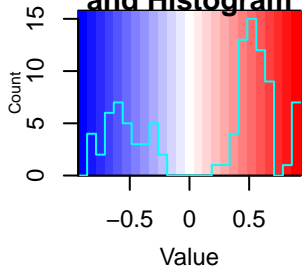
Scatterplot of all gene sets; FDR<0.05 in red



Scatterplot of all gene sets; top 50 in red



Color Key and Histogram

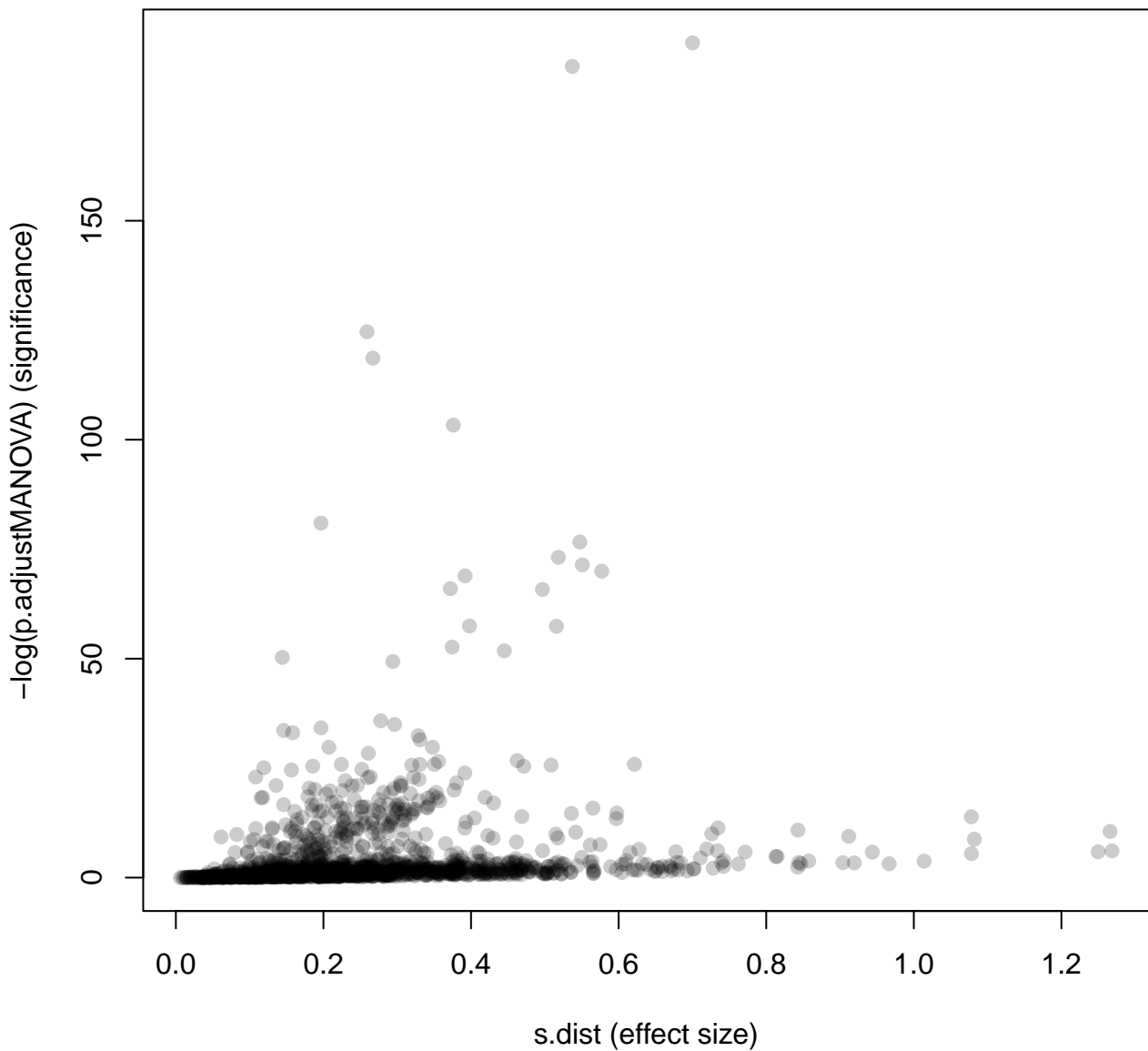


- REACTOME_VASOPRESSIN LIKE RECEPTORS
- REACTOME_TFAP2_AP_2_FAMILY REGULATES TRANSCRIPTION OF CEL
- REACTOME_ACTIVATION_OF_TRKA_RECEPTORS
- REACTOME_CD22_MEDIATED_BCR_REGULATION
- REACTOME_NEF_AND_SIGNAL_TRANSDUCTION
- REACTOME_SIGNALING_BY_LRP5_MUTANTS
- REACTOME_REGULATION_OF_GENE_EXPRESSION_IN_ENDOCRINE_COM
- REACTOME_EPITHELIAL_MESENCHYMAL_TRANSITION_EMT_DURING_GA
- REACTOME_NEGATIVE_REGULATION_OF_ACTIVITY_OF_TFAP2_AP_2_FAM
- REACTOME_ERYTHROPOIETIN_ACTIVATES_PHOSPHOLIPASE_C_GAMMA
- REACTOME_TRANSCRIPTIONAL_REGULATION_OF_TESTIS_DIFFERENTIAT
- REACTOME_GERM_LAYER_FORMATION_AT_GASTRULATION
- REACTOME_HDL_CLEARANCE
- REACTOME_REGULATION_OF_GENE_EXPRESSION_IN_EARLY_PANCREAT
- REACTOME_ADRENOCEPTORS
- REACTOME_MODULATION_BY_MTB_OF_HOST_IMMUNE_SYSTEM
- REACTOME_AMINO_ACID_CONJUGATION
- REACTOME_DEFECTIVE_ST3GAL3_CAUSES_MCT12_AND_EIEE15
- REACTOME_DIGESTION_AND_ABSORPTION
- REACTOME_DEFECTIVE_B4GALT1_CAUSES_B4GALT1_CDG_CDG_2D
- REACTOME_OLFACTORY_SIGNALING_PATHWAY
- REACTOME_ORGANIC_ANION_TRANSPORT
- REACTOME_FICOLINS_BIND_TO_REPETITIVE_CARBOHYDRATE_STRUCTU
- REACTOME_DIGESTION_OF_DIETARY_LIPID
- REACTOME_MINERALOCORTICOID_BIOSYNTHESIS

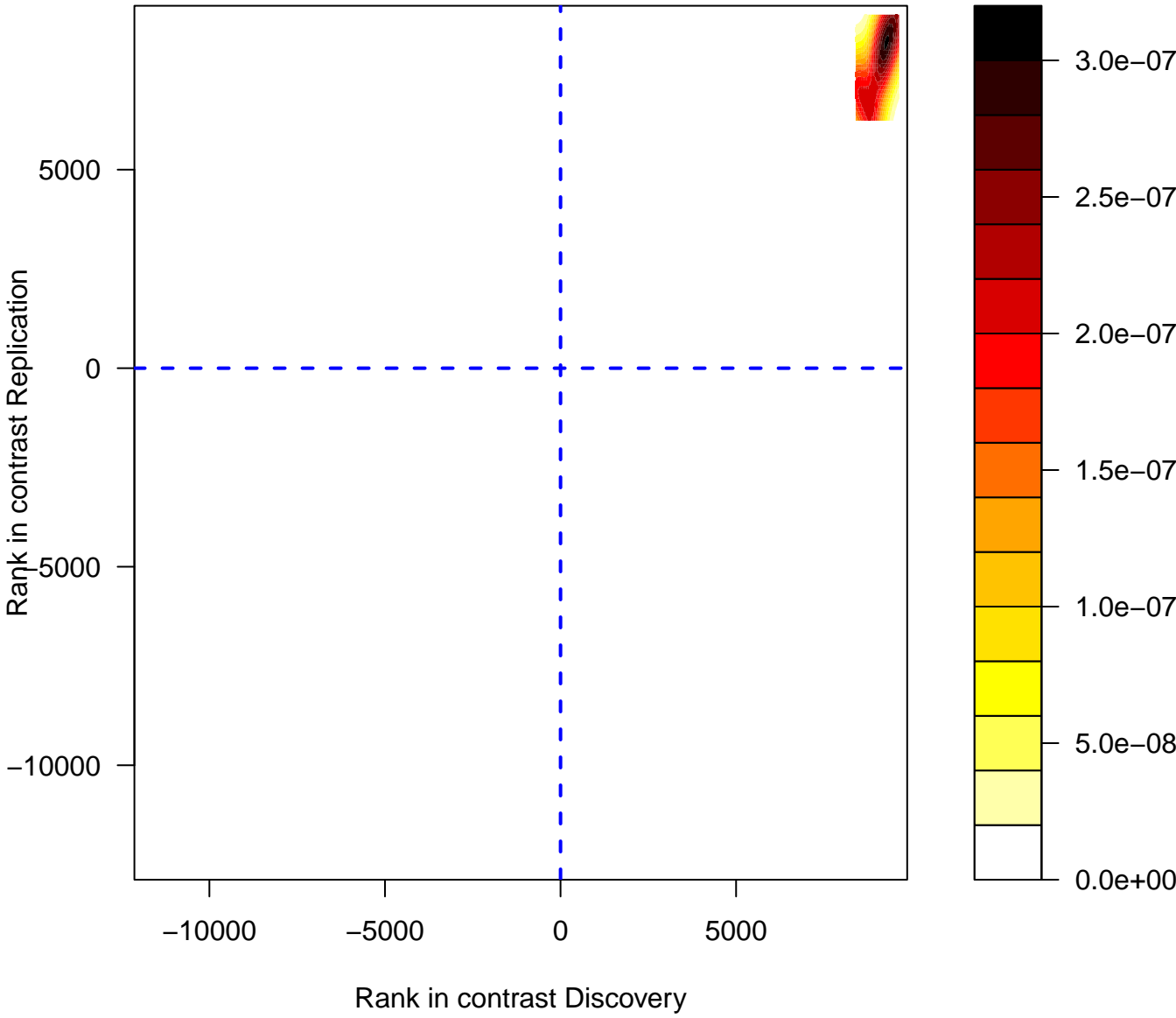
Discovery

Replication

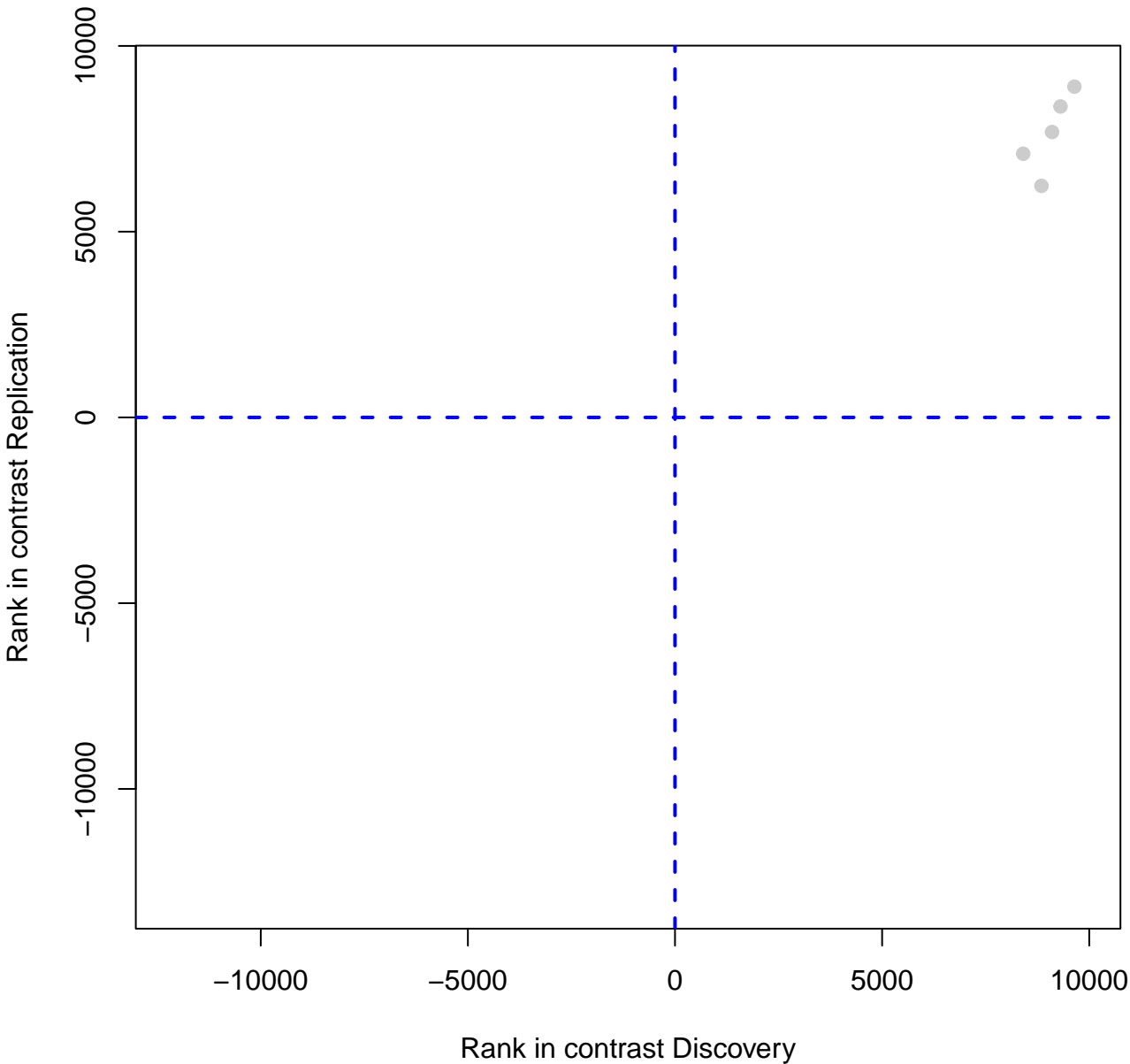
effect size versus statistical significance



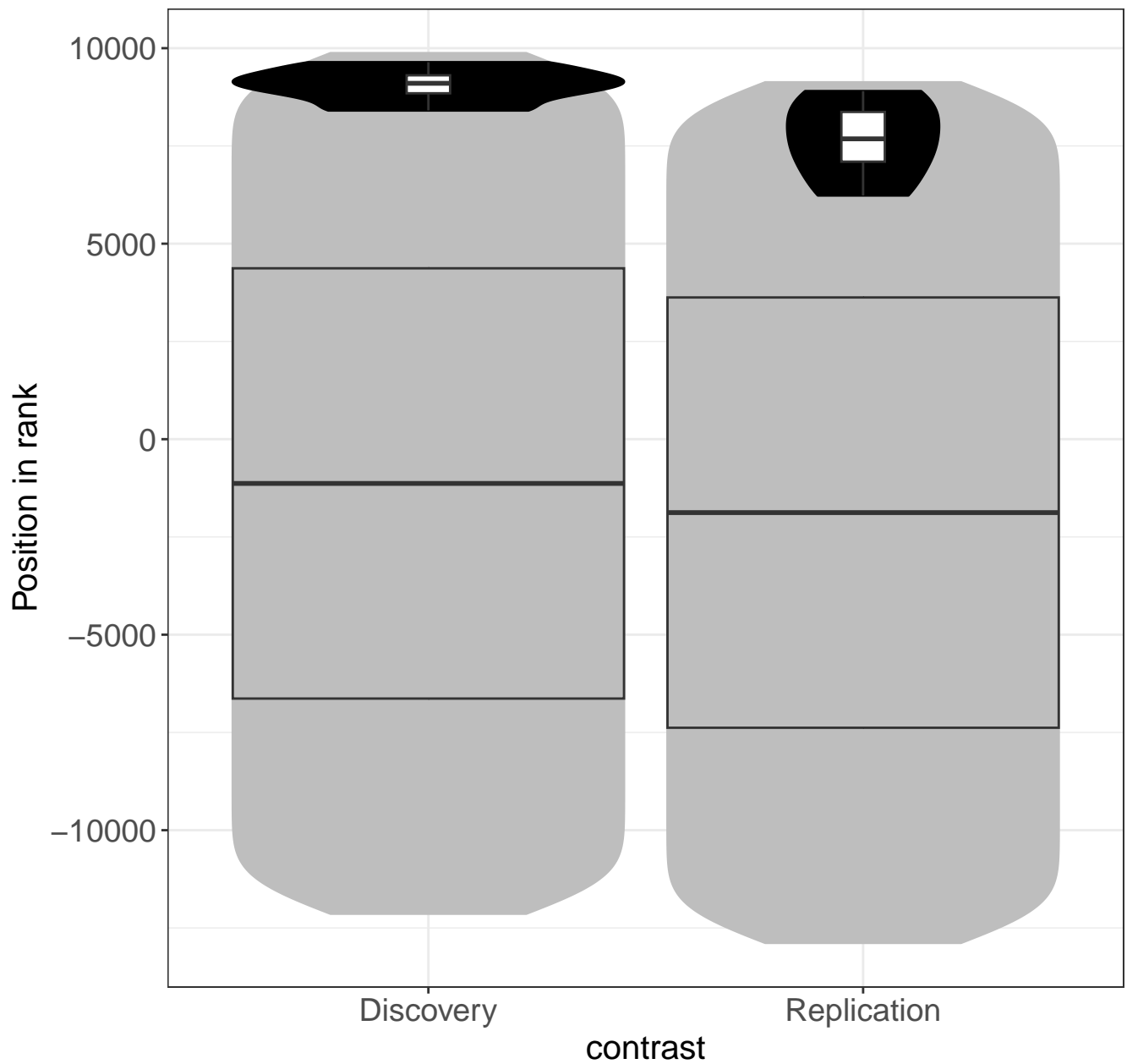
REACTOME_FORMATION_OF_LATERAL_PLATE_MESODE



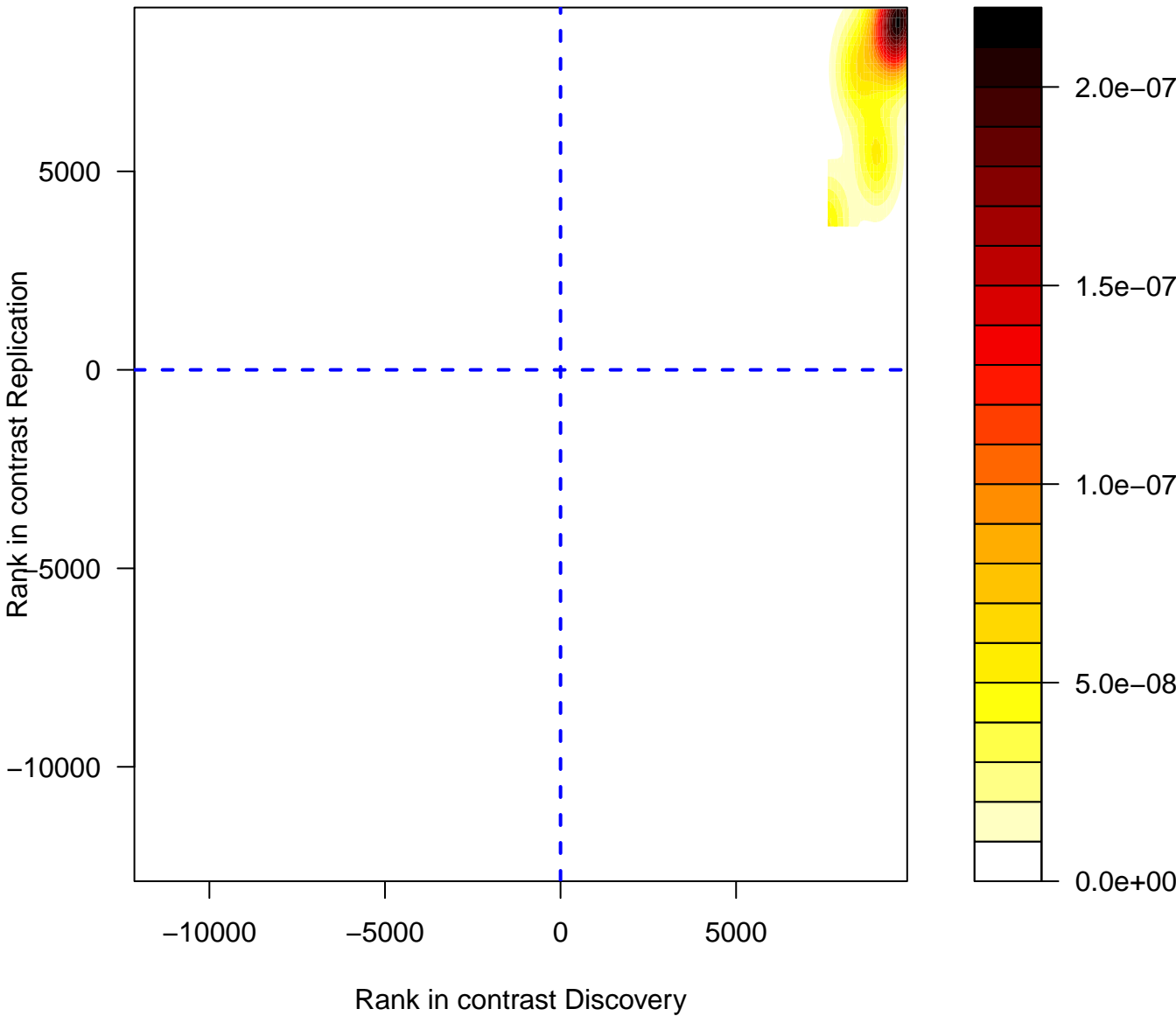
REACTOME_FORMATION_OF_LATERAL_PLATE_MESODERM



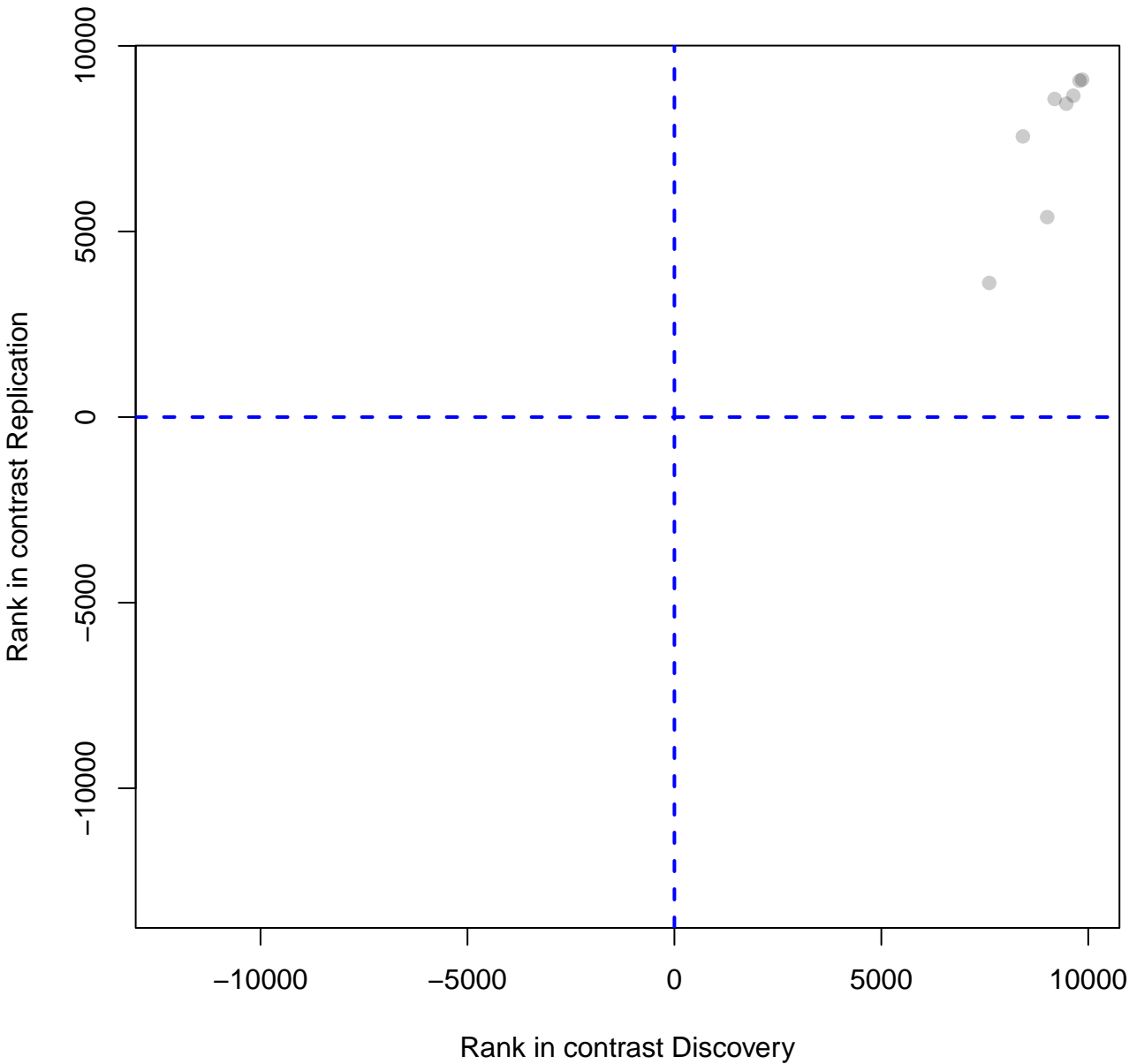
REACTOME_FORMATION_OF_LATERAL_PLAT



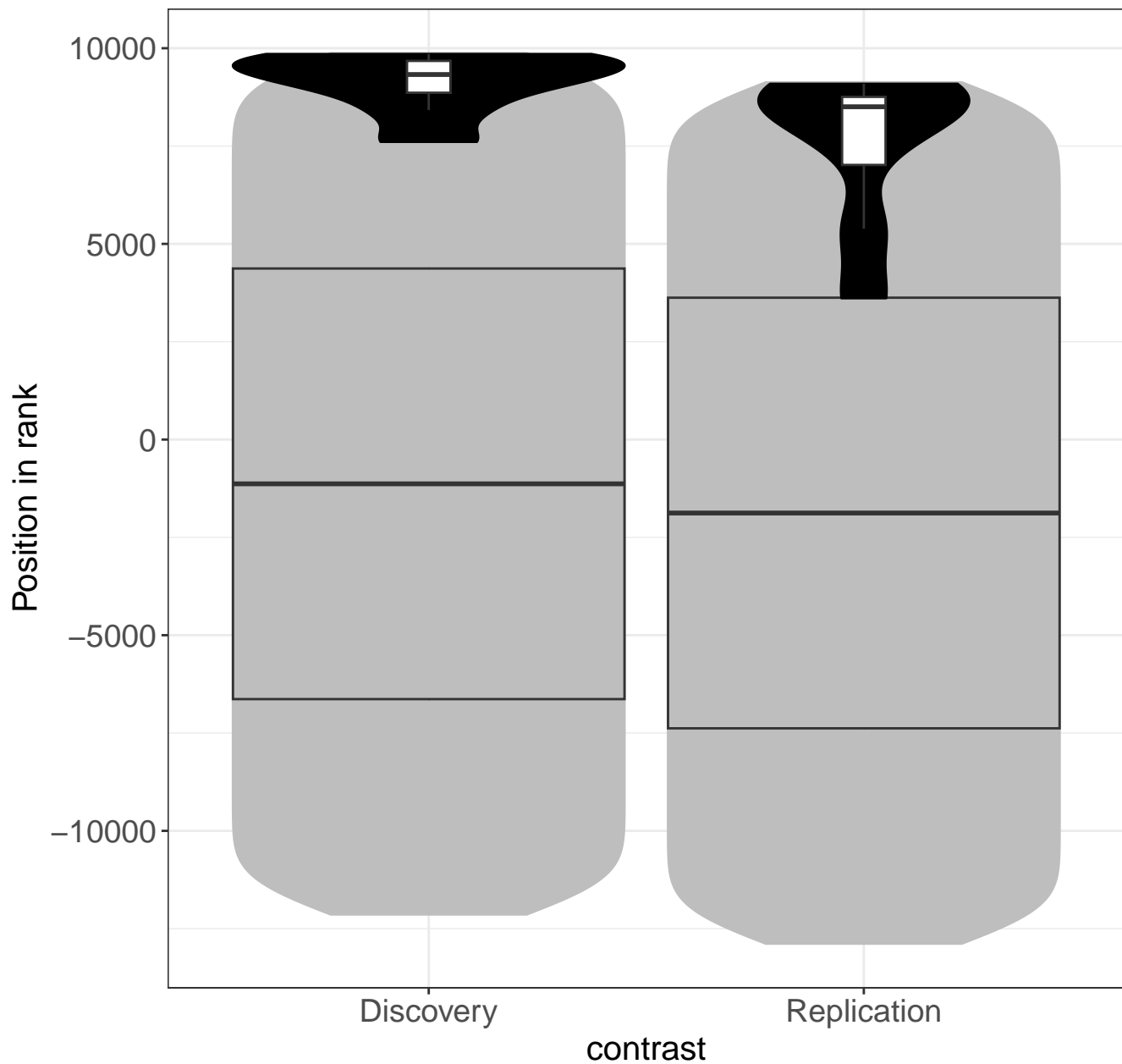
MULATION_OF_GENE_EXPRESSION_IN_EARLY_PANCREATIC



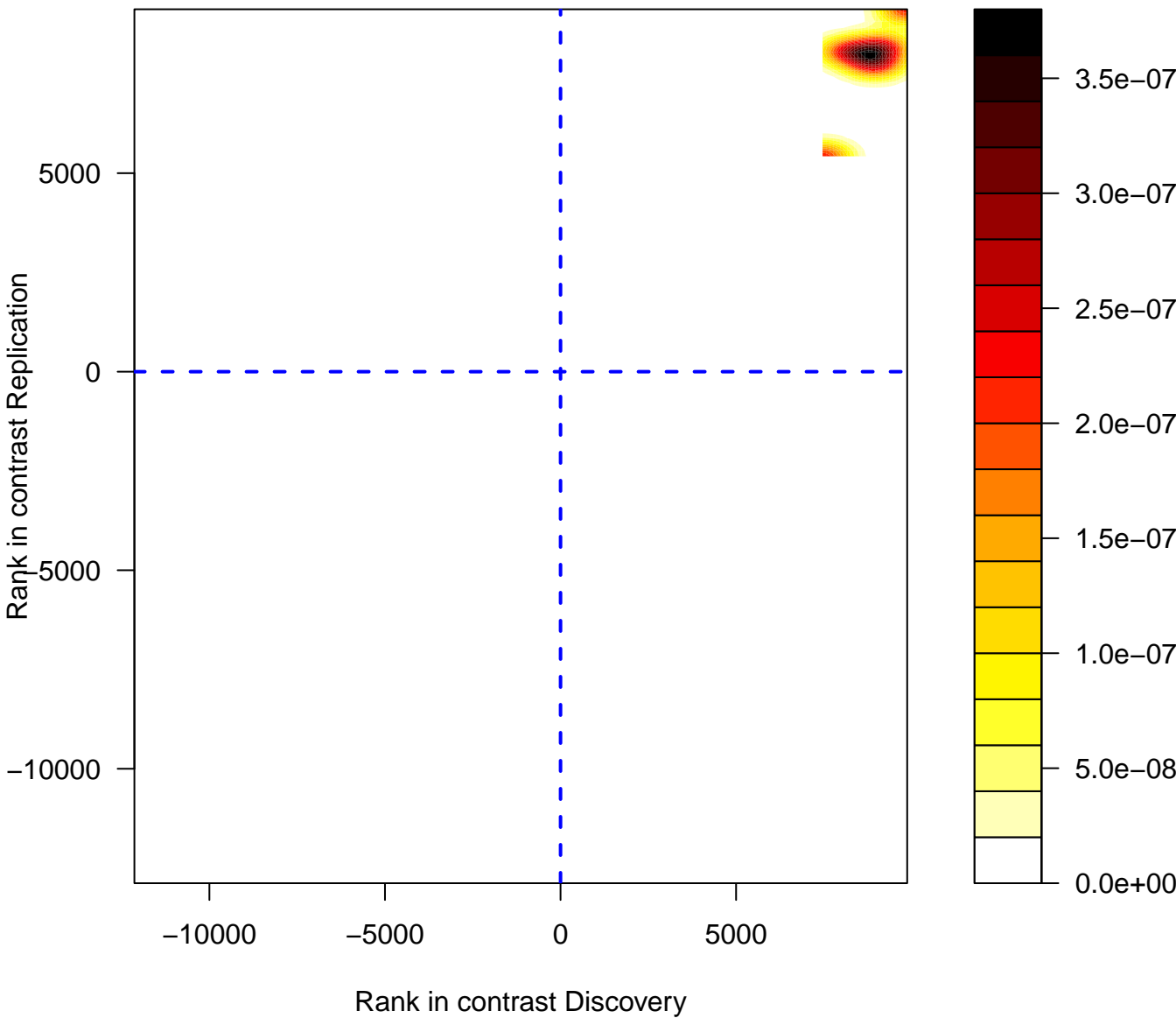
E_REGULATION_OF_GENE_EXPRESSION_IN_EARLY_PANCREATIC_PRECU



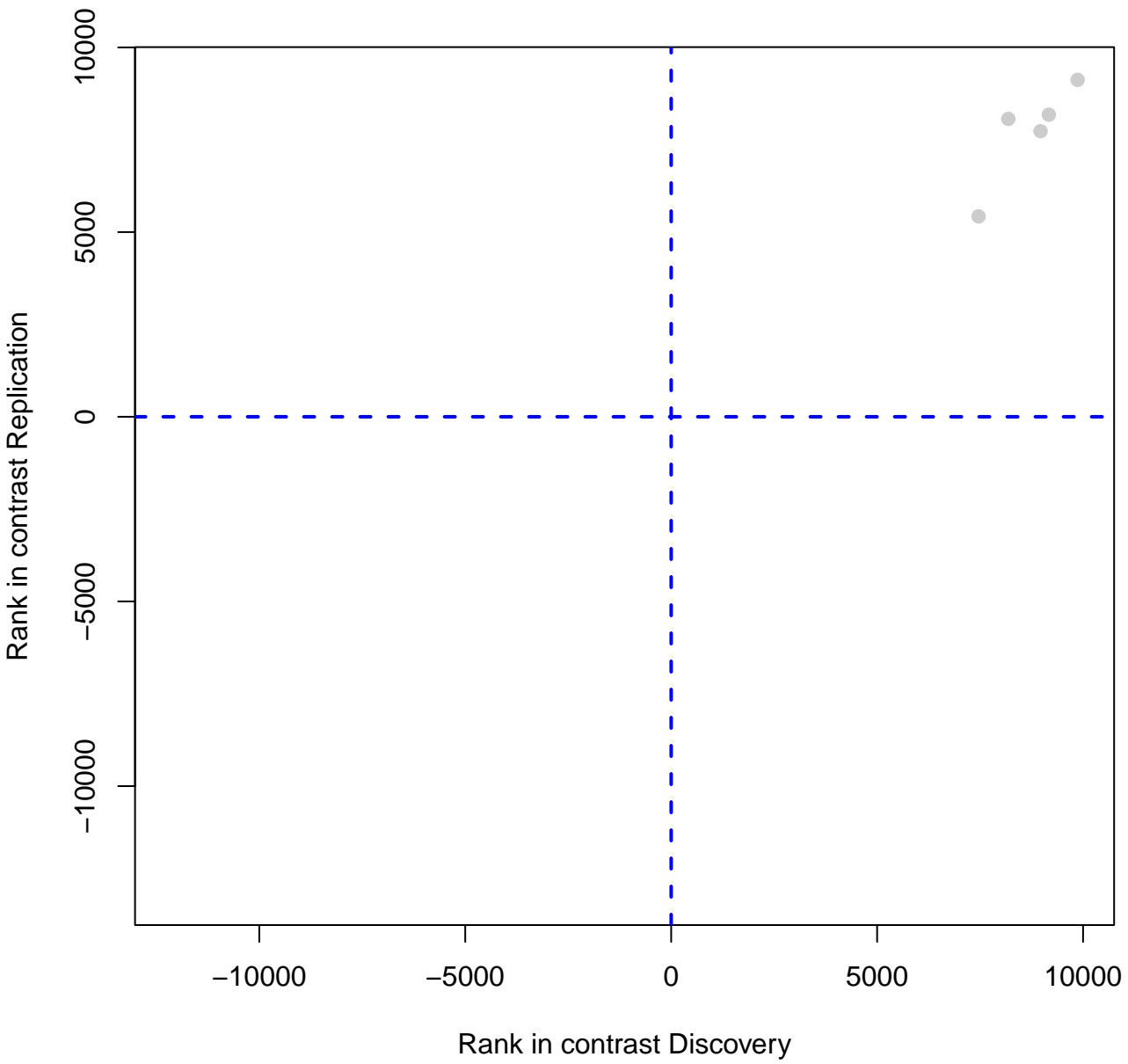
REACTOME_REGULATION_OF_GENE_EXPRES



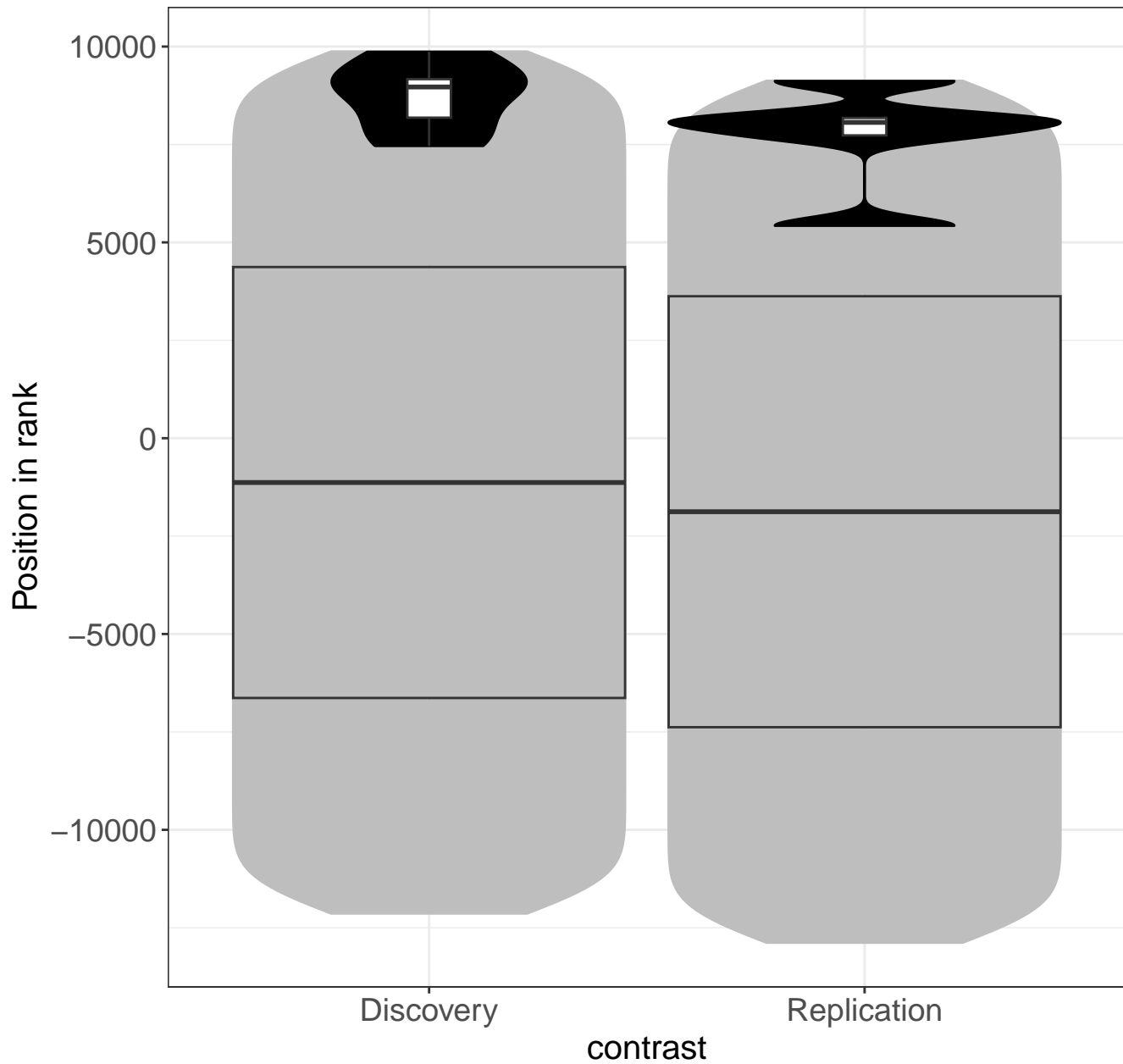
REACTOME_DOPAMINE_RECEPTORS



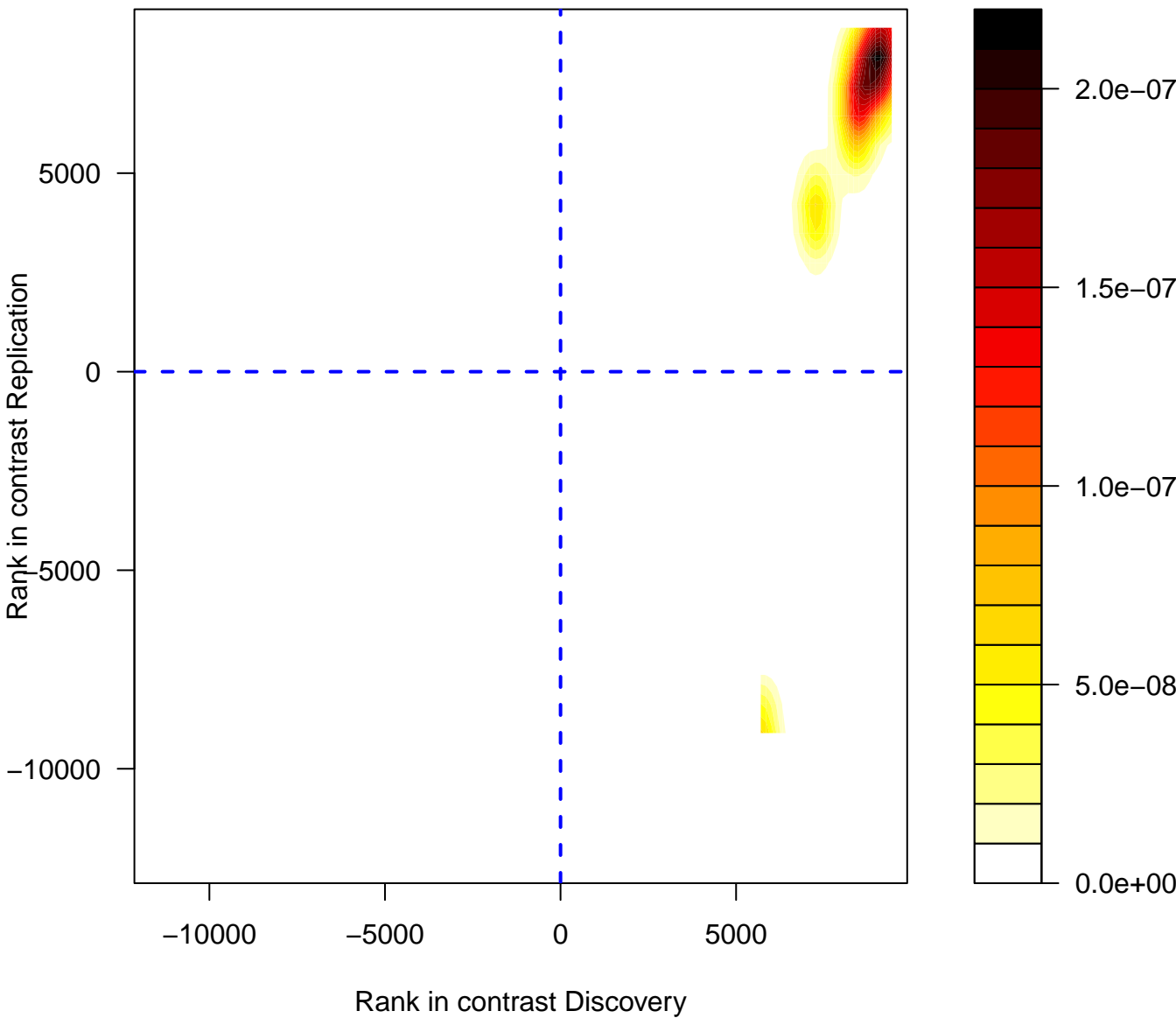
REACTOME_DOPAMINE_RECEPTORS



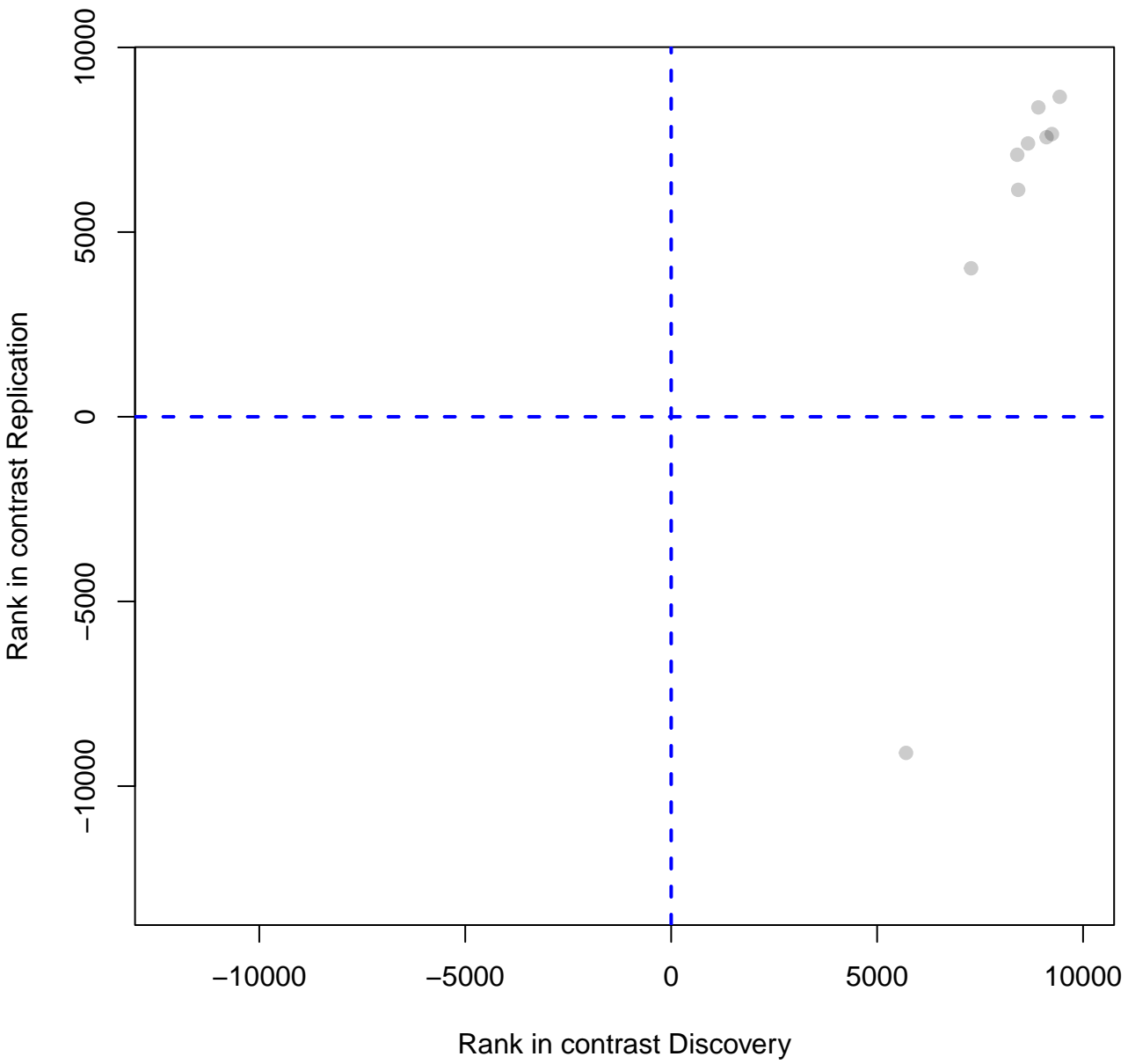
REACTOME_DOPAMINE_RECEPTORS



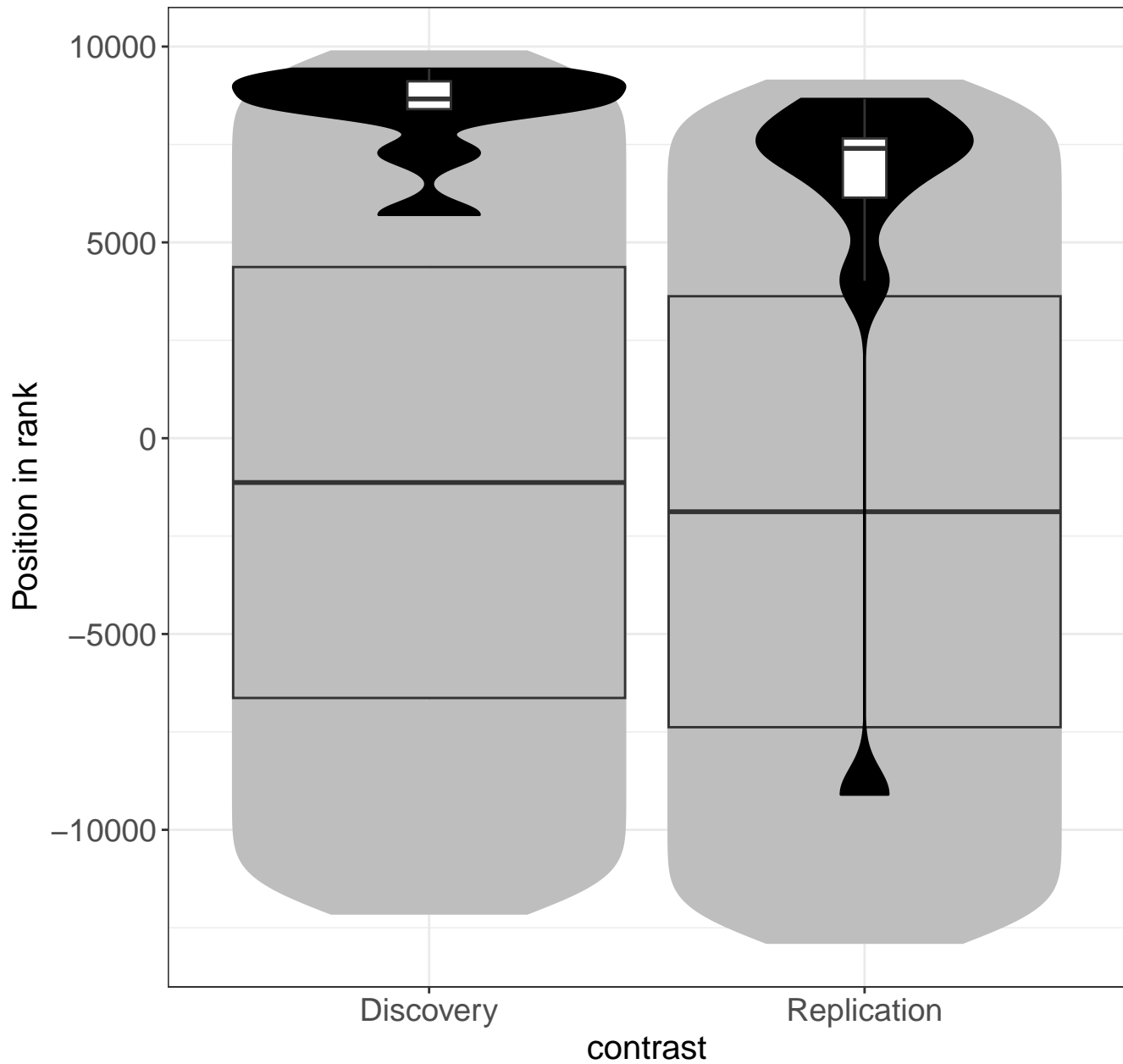
REACTOME_ADRENOCEPTORS



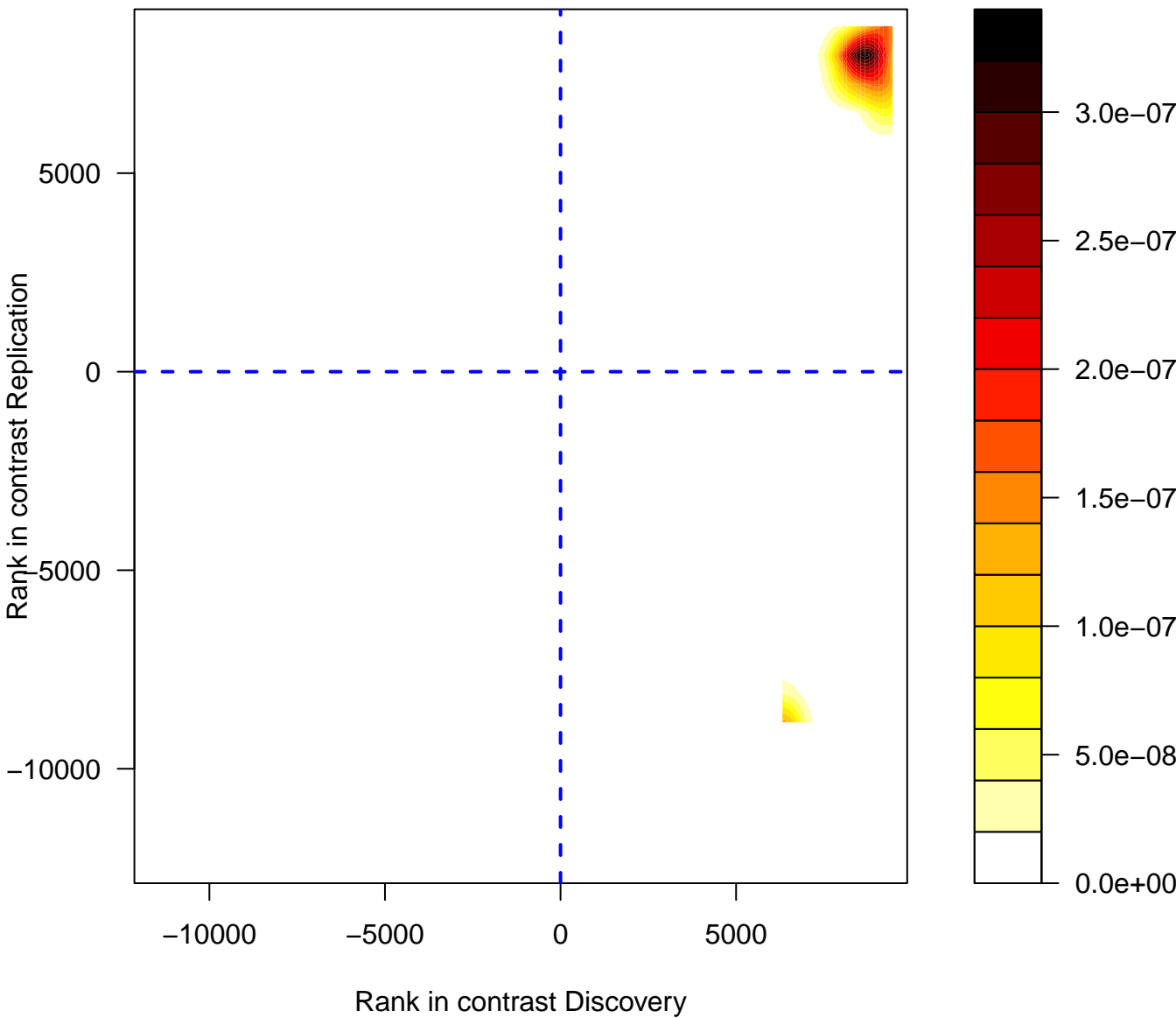
REACTOME_ADRENOCEPTORS



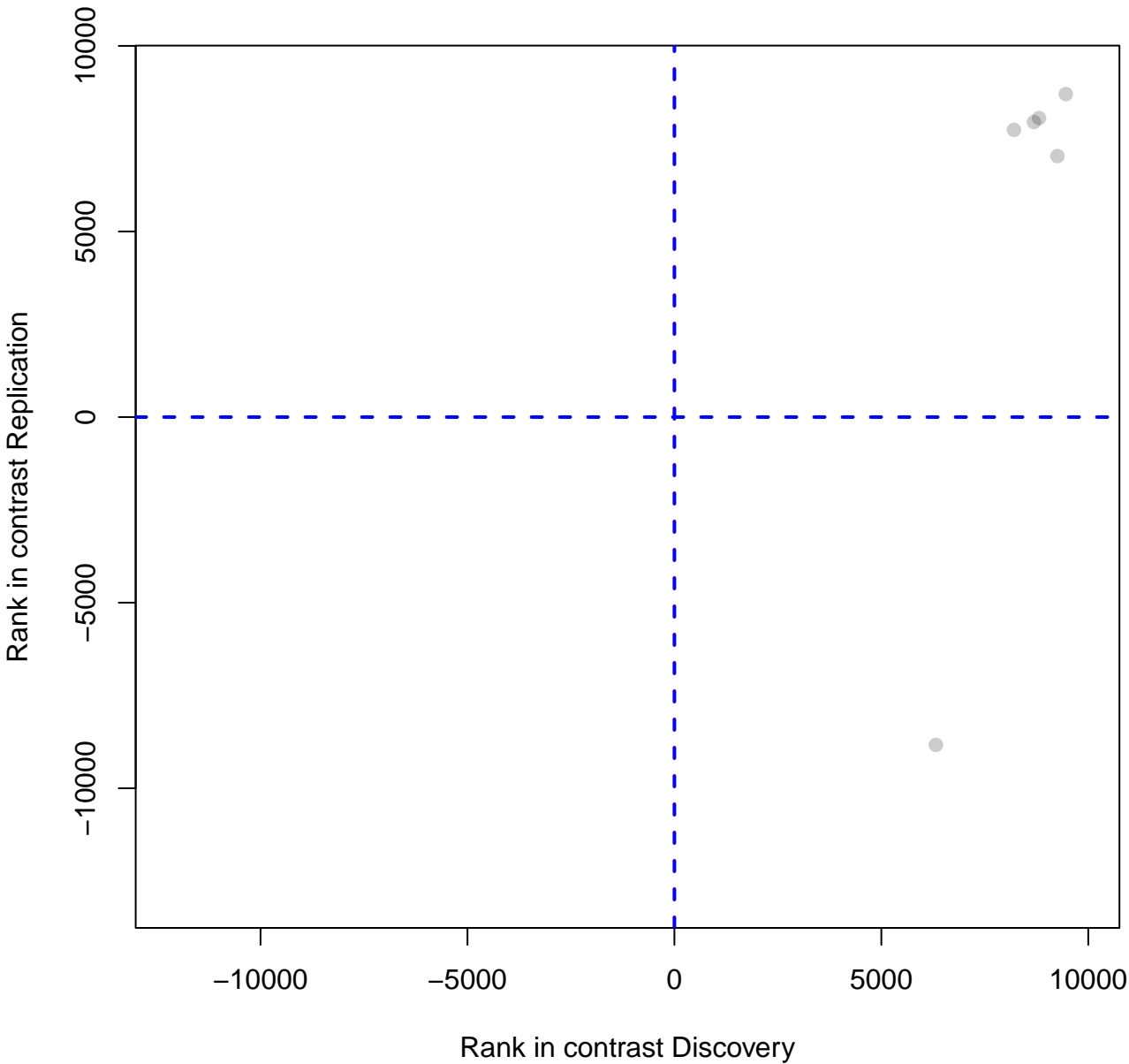
REACTOME_ADRENOCEPTORS



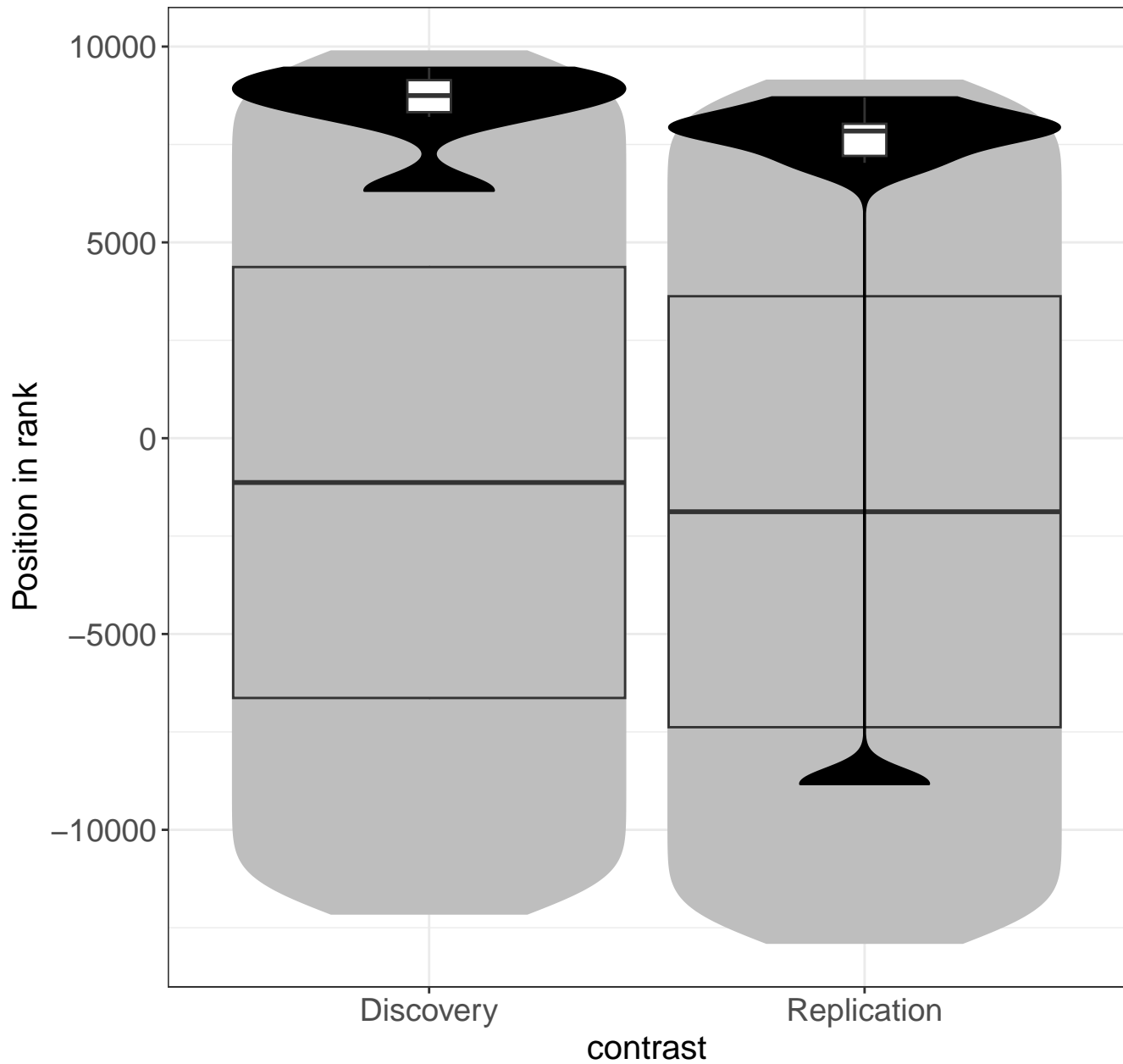
REACTOME_VITAMINS



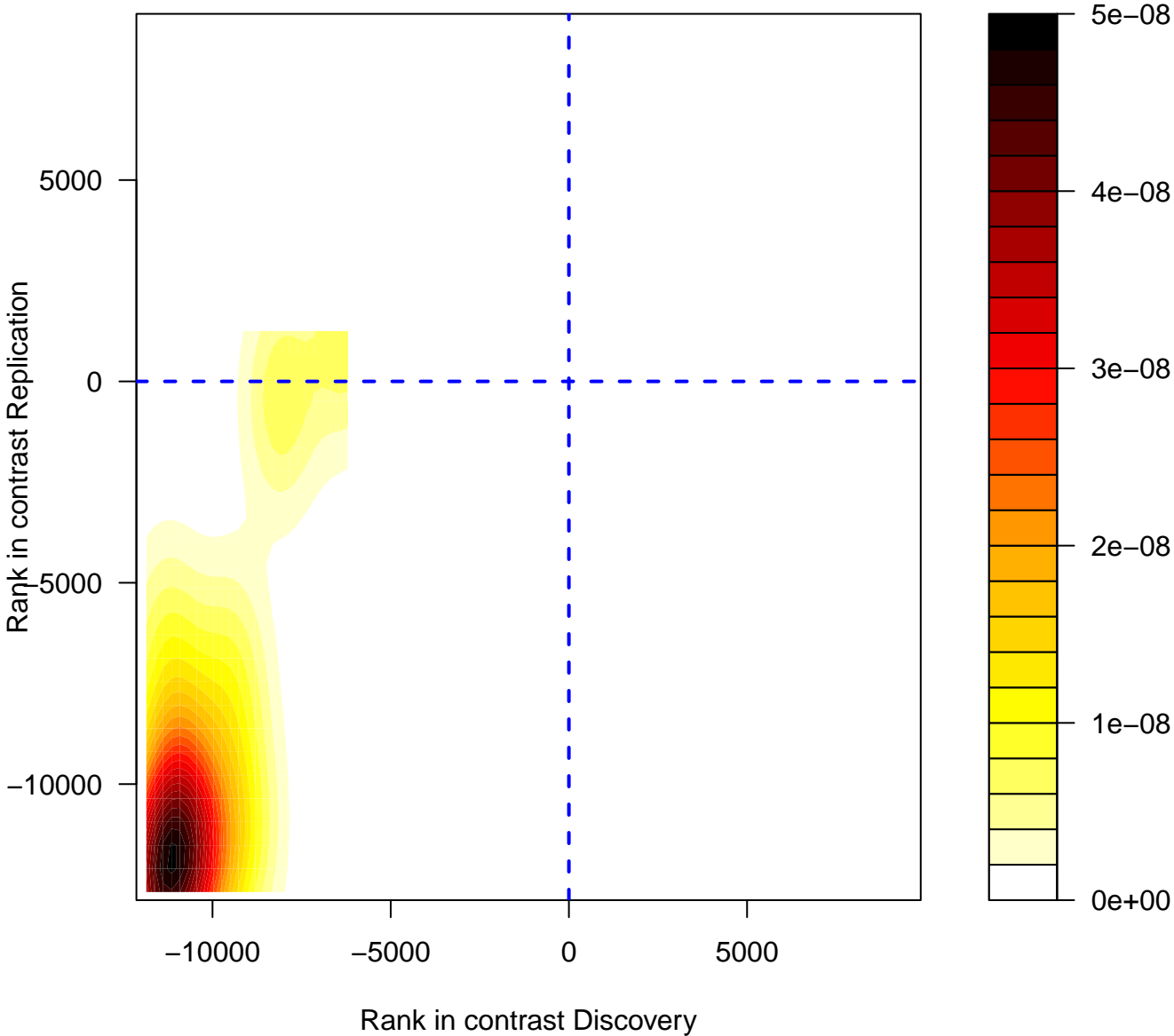
REACTOME_VITAMINS



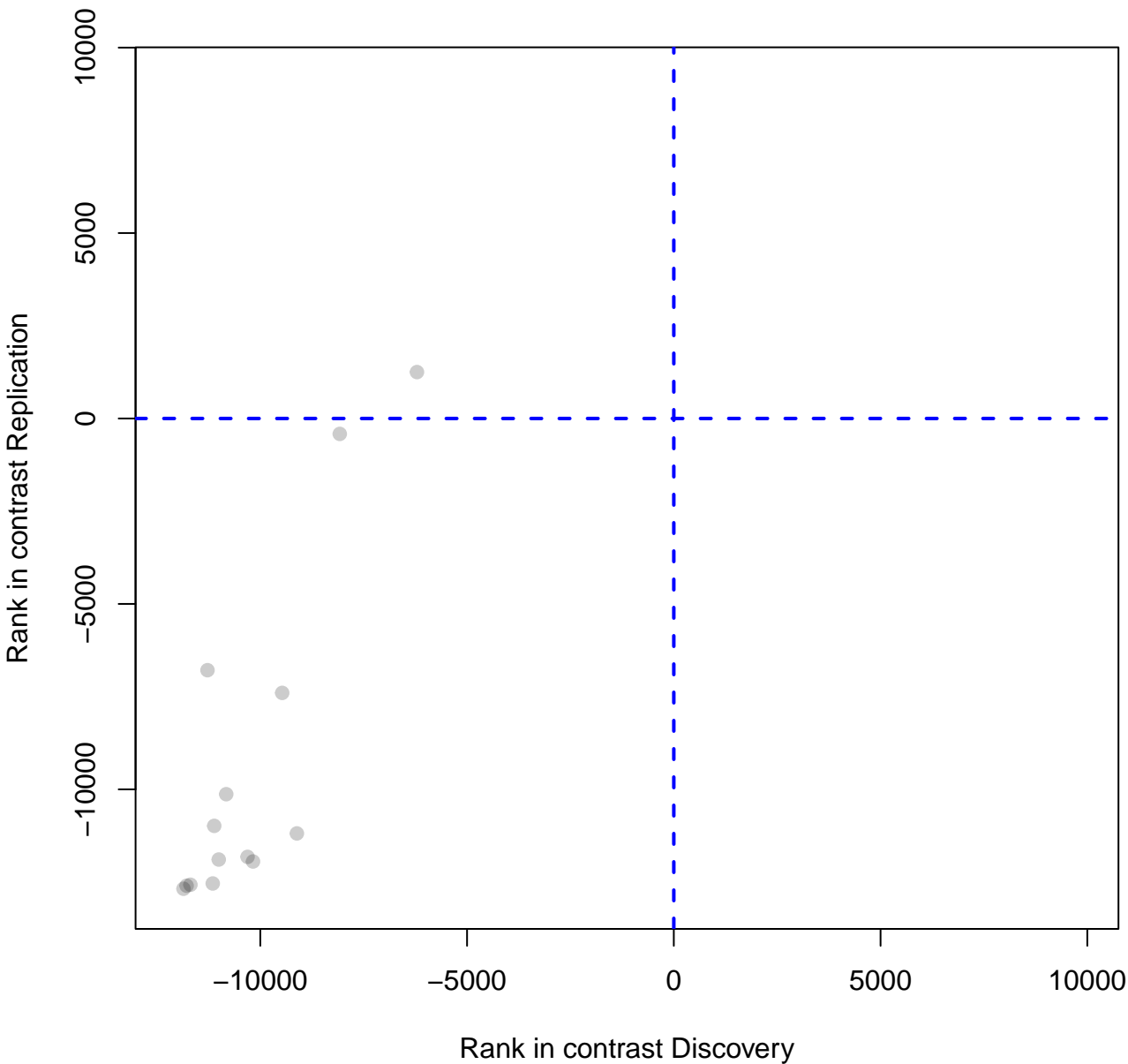
REACTOME_VITAMINS



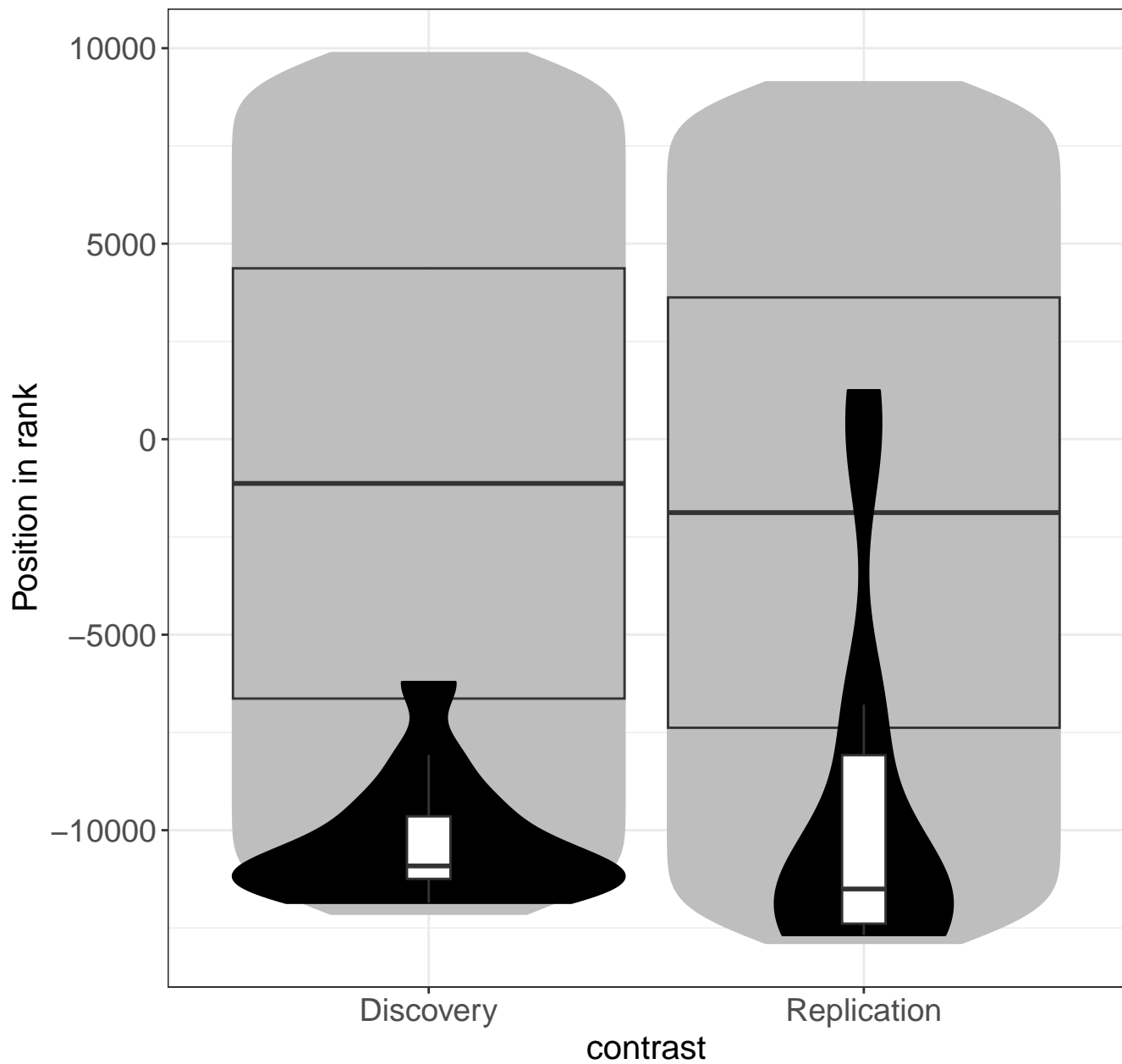
REACTOME_CREATION_OF_C4_AND_C2_ACTIVATORS



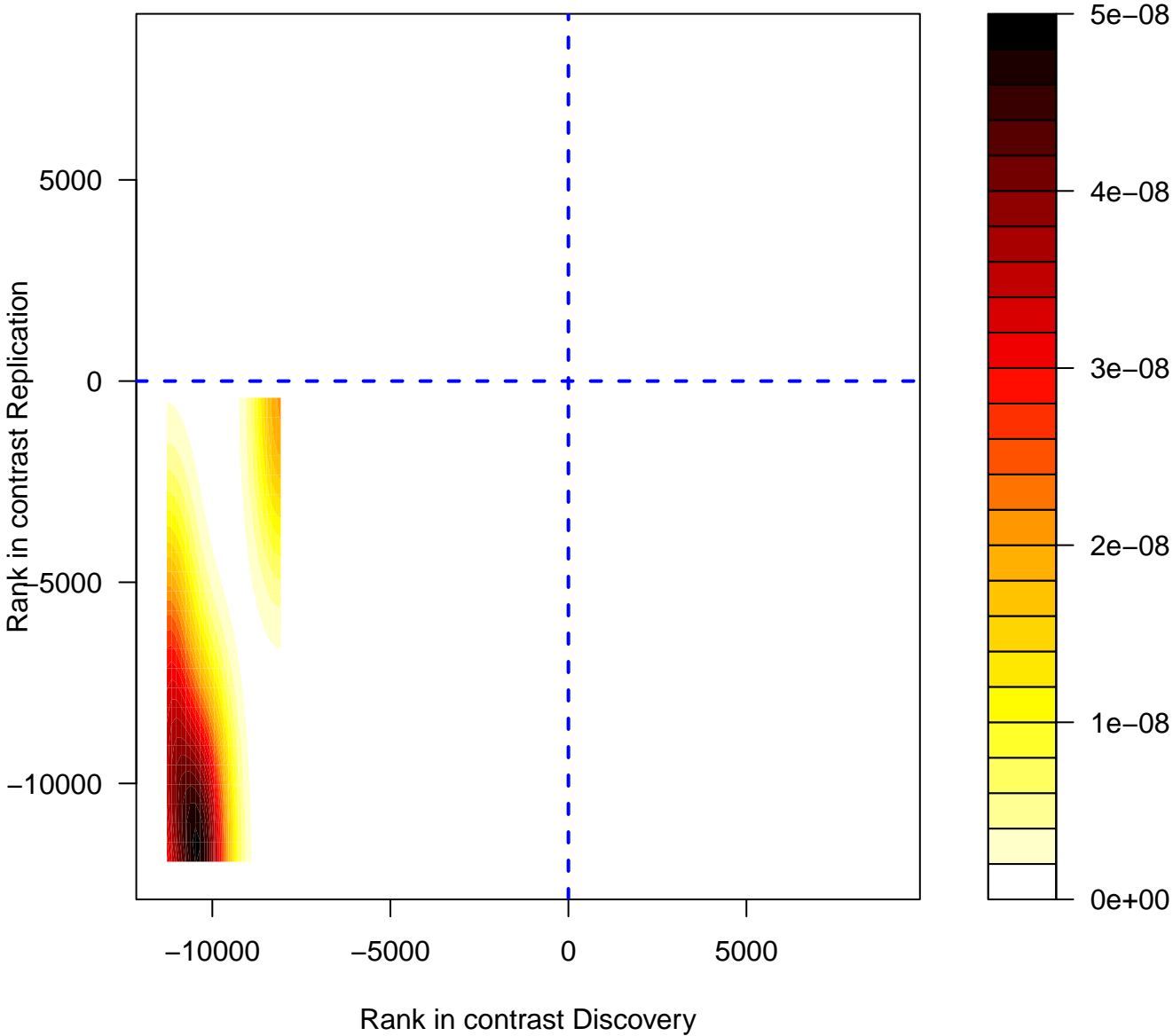
REACTOME_CREATION_OF_C4_AND_C2_ACTIVATORS



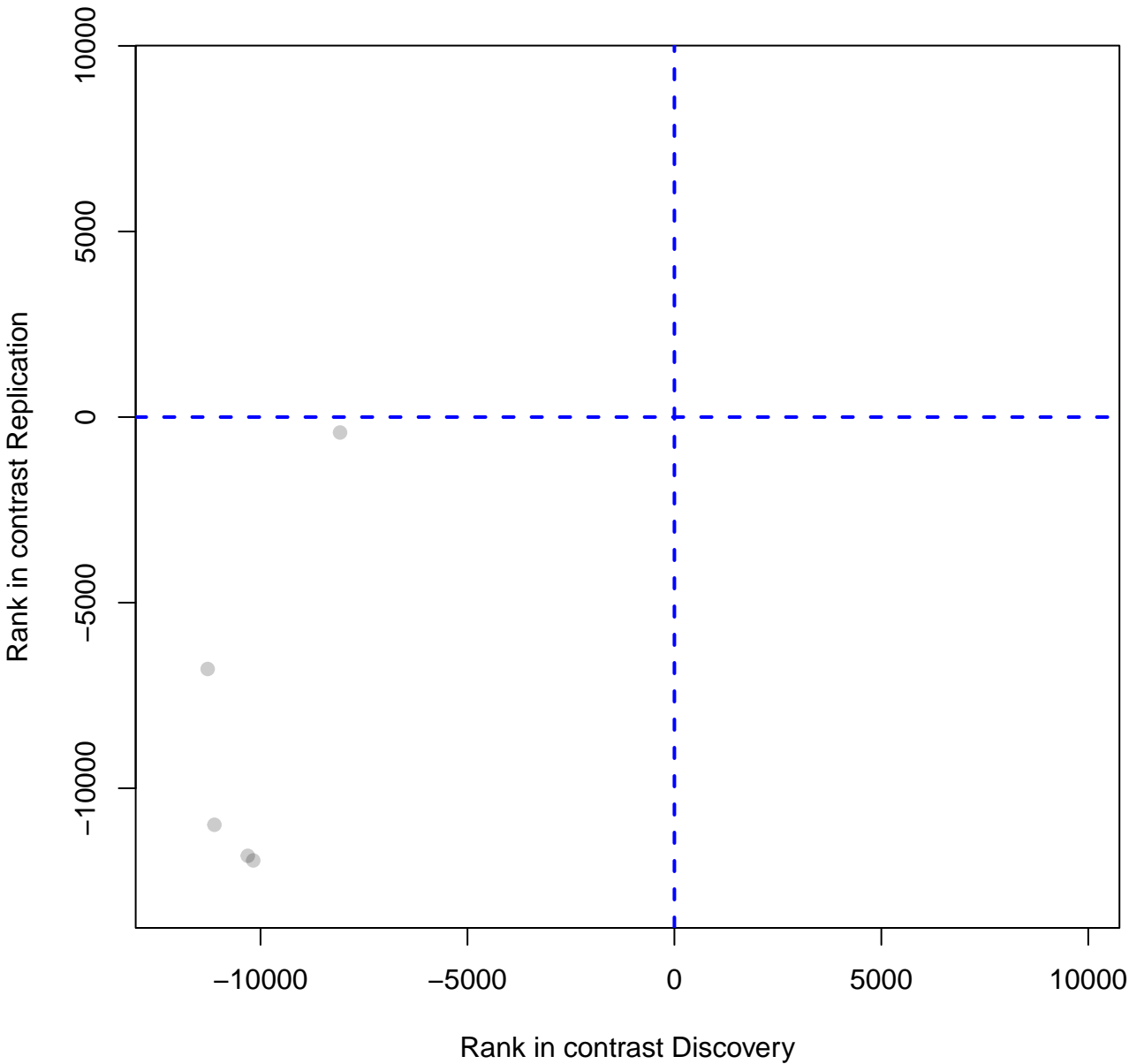
REACTOME_CREATION_OF_C4_AND_C2_AC



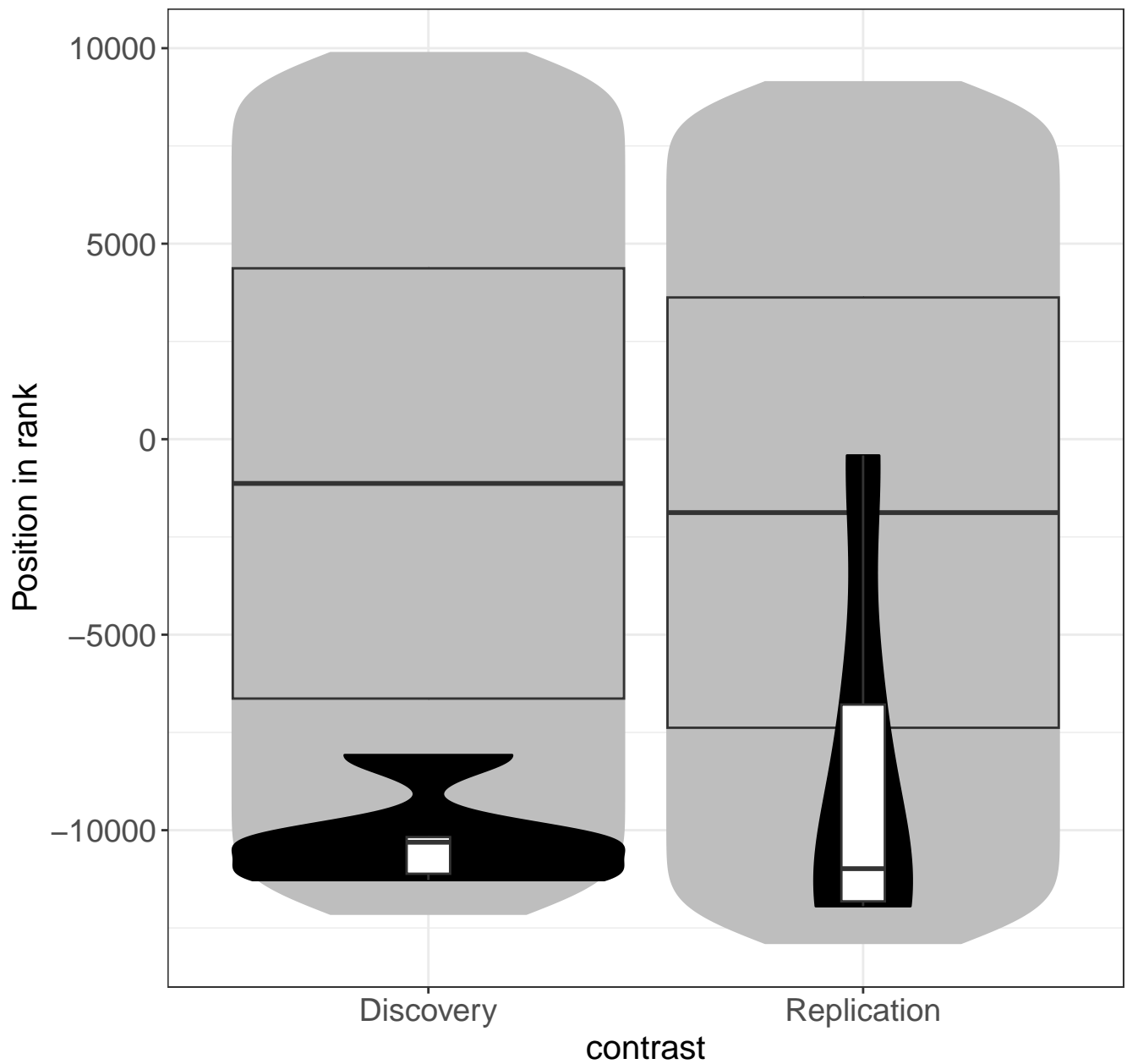
IND_TO_REPETITIVE_CARBOHYDRATE_STRUCTURES_ON_



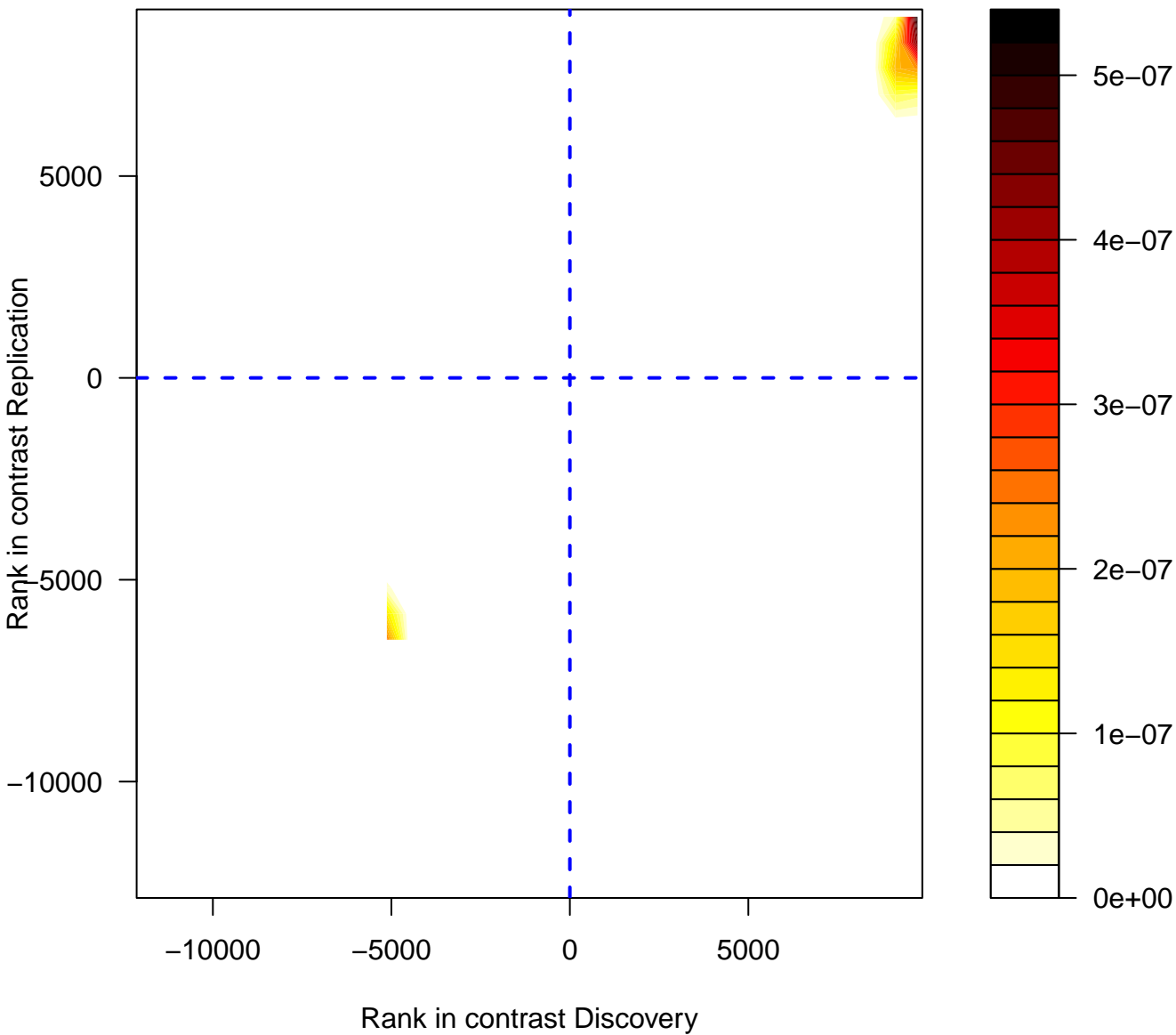
INS BIND TO REPETITIVE CARBOHYDRATE STRUCTURES ON THE TA



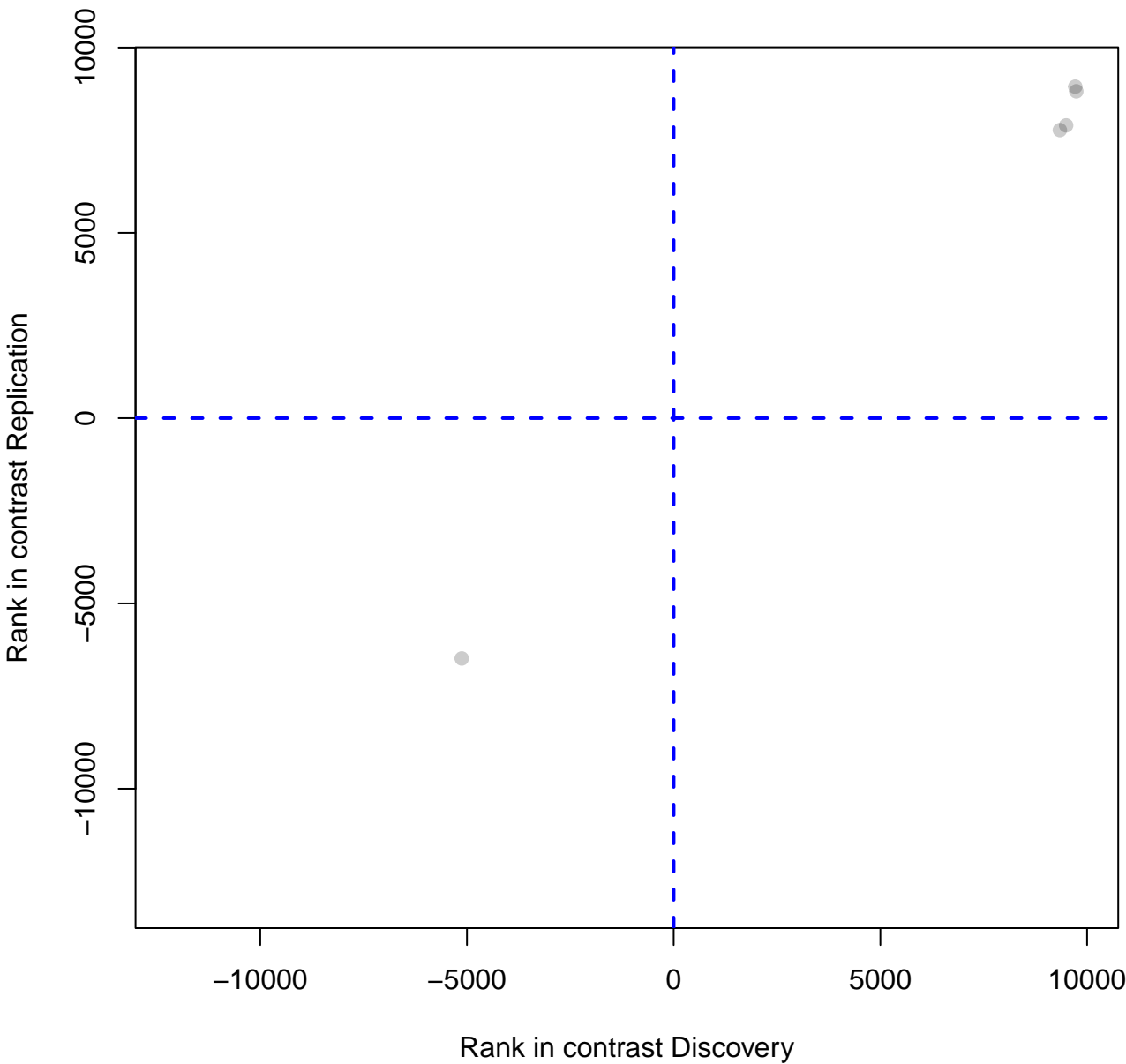
REACTOME_FICOLINS_BIND_TO_REPETITIV



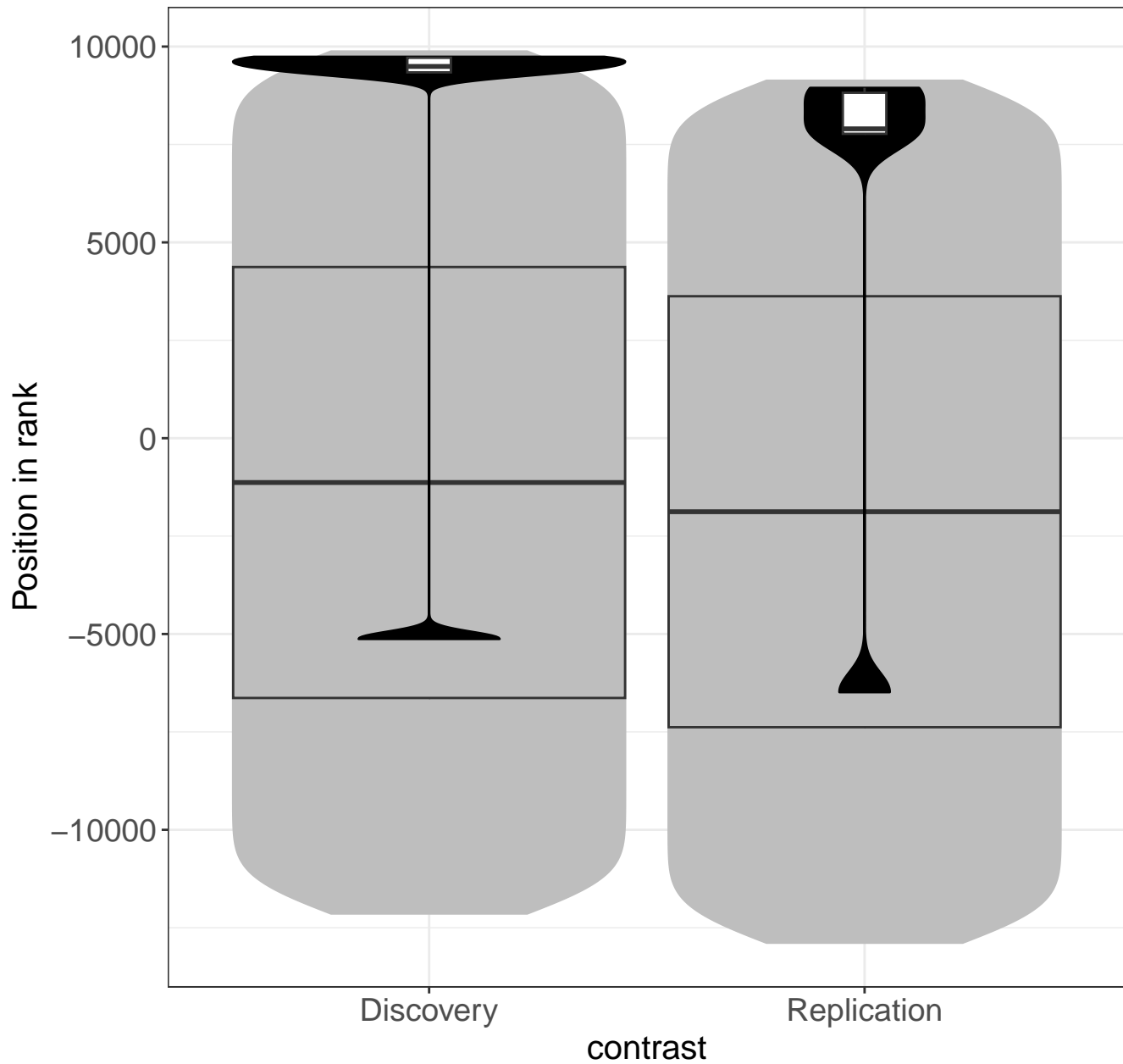
N_OF_GENE_EXPRESSION_IN_ENDOCRINE_COMMITTED_N



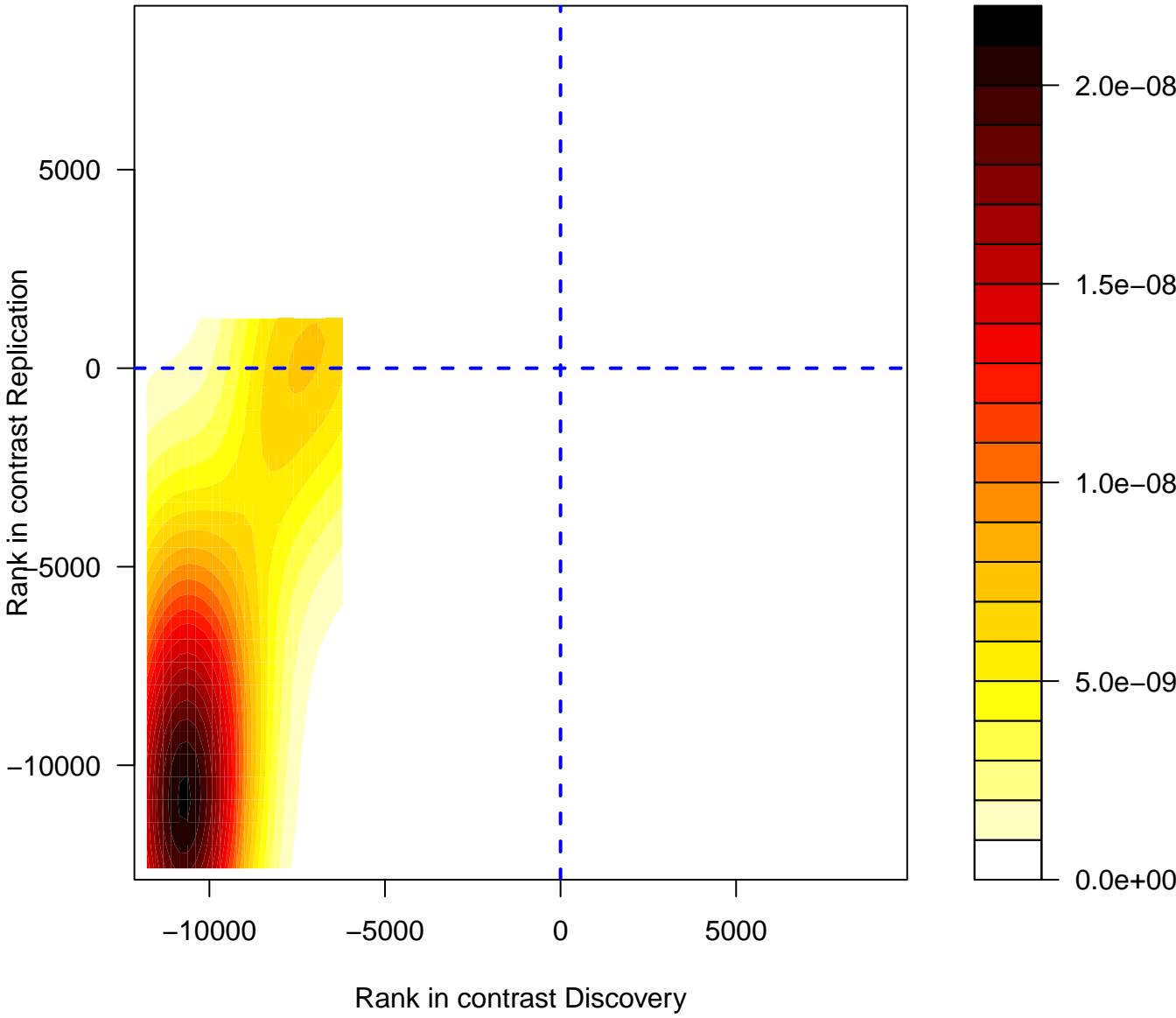
RELATIONSHIP_OF_GENE_EXPRESSION_IN_ENDOCRINE_COMMITTED_NEUROG3



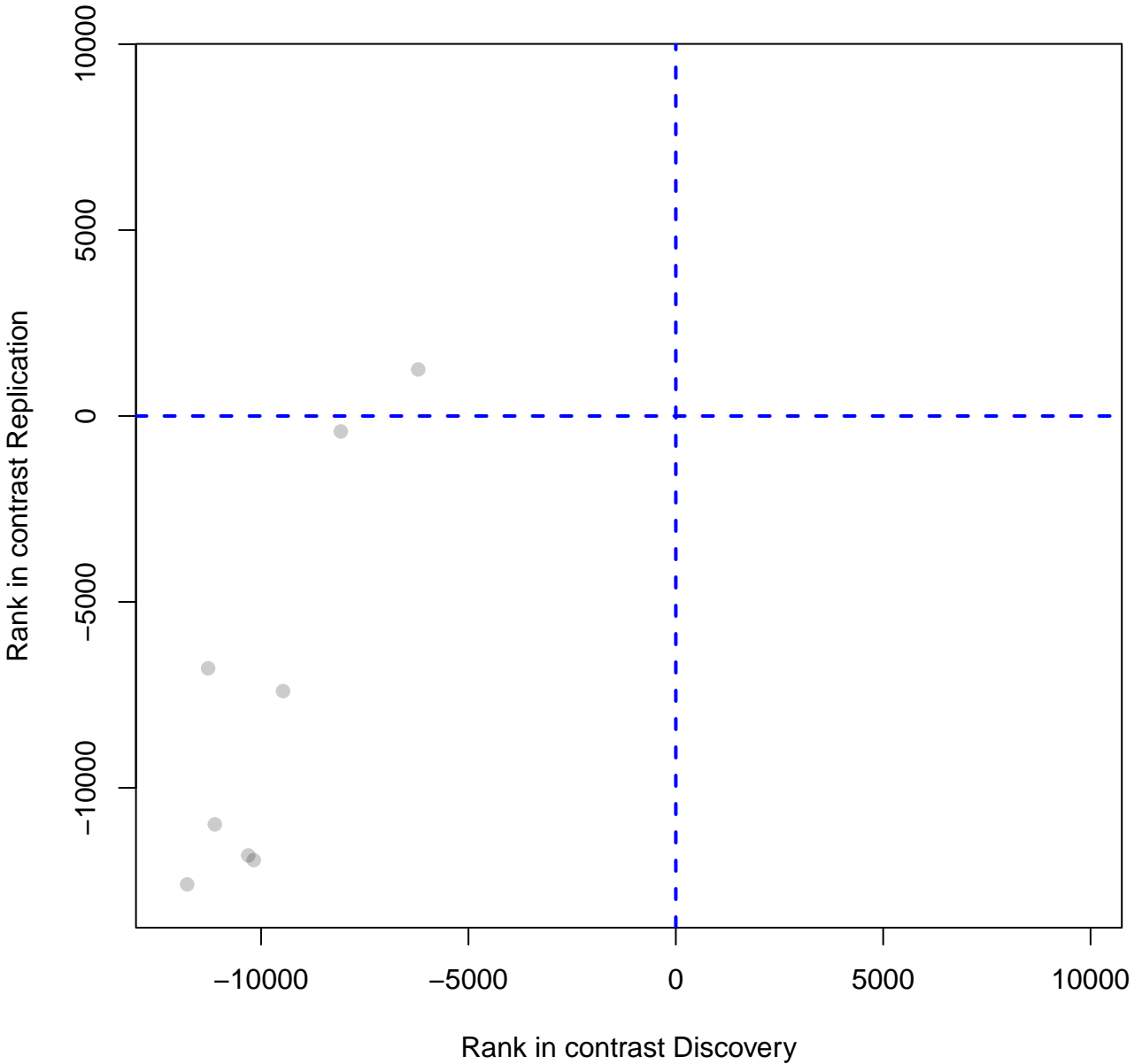
REACTOME_REGULATION_OF_GENE_EXPRES



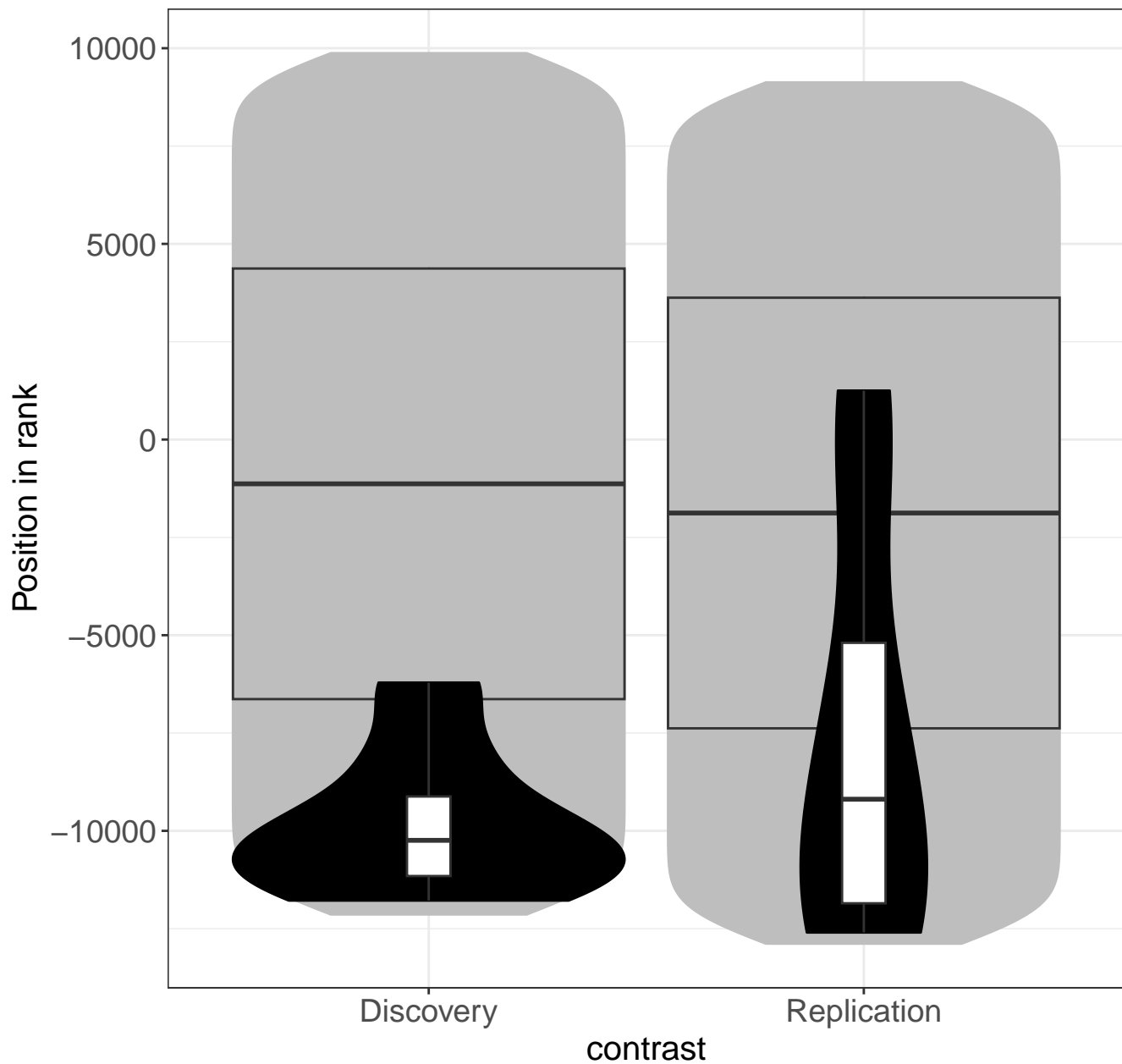
REACTOME_LLECTIN_PATHWAY_OF_COMPLEMENT_ACTIV/



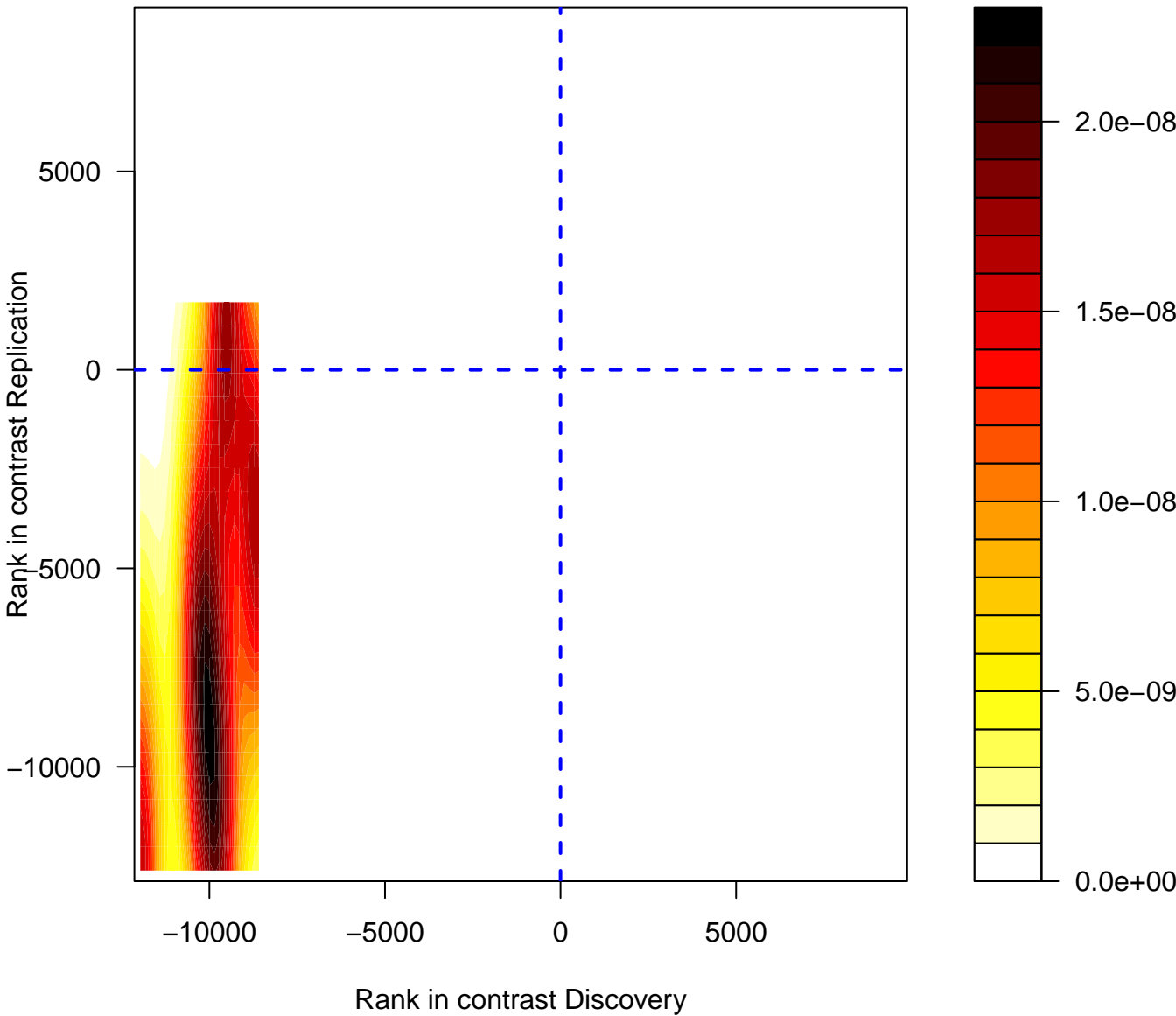
REACTOME_LLECTIN_PATHWAY_OF_COMPLEMENT_ACTIVATION



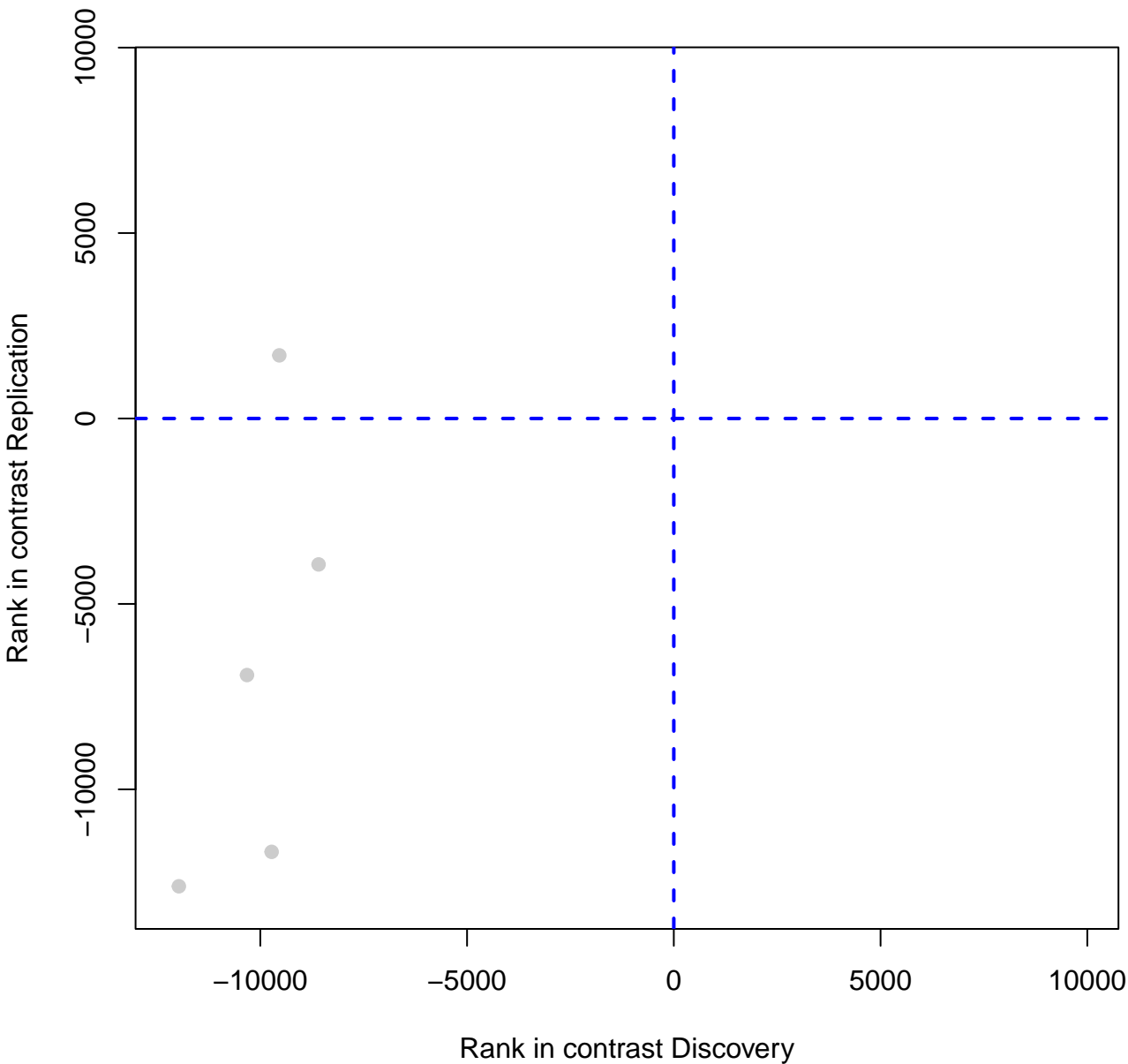
REACTOME_LLECTIN_PATHWAY_OF_COMPLE



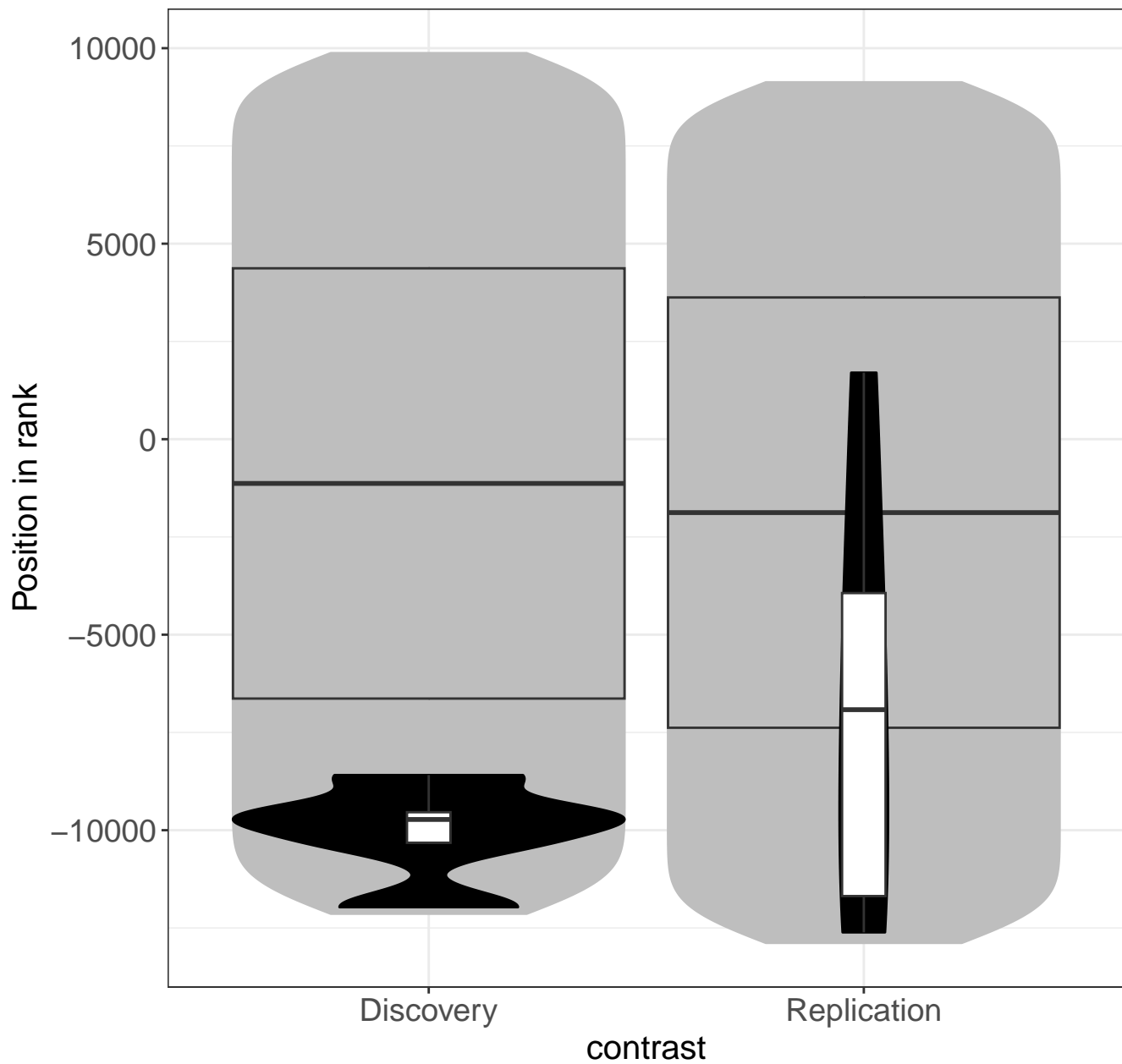
REACTOME_ORGANIC_ANION_TRANSPORT



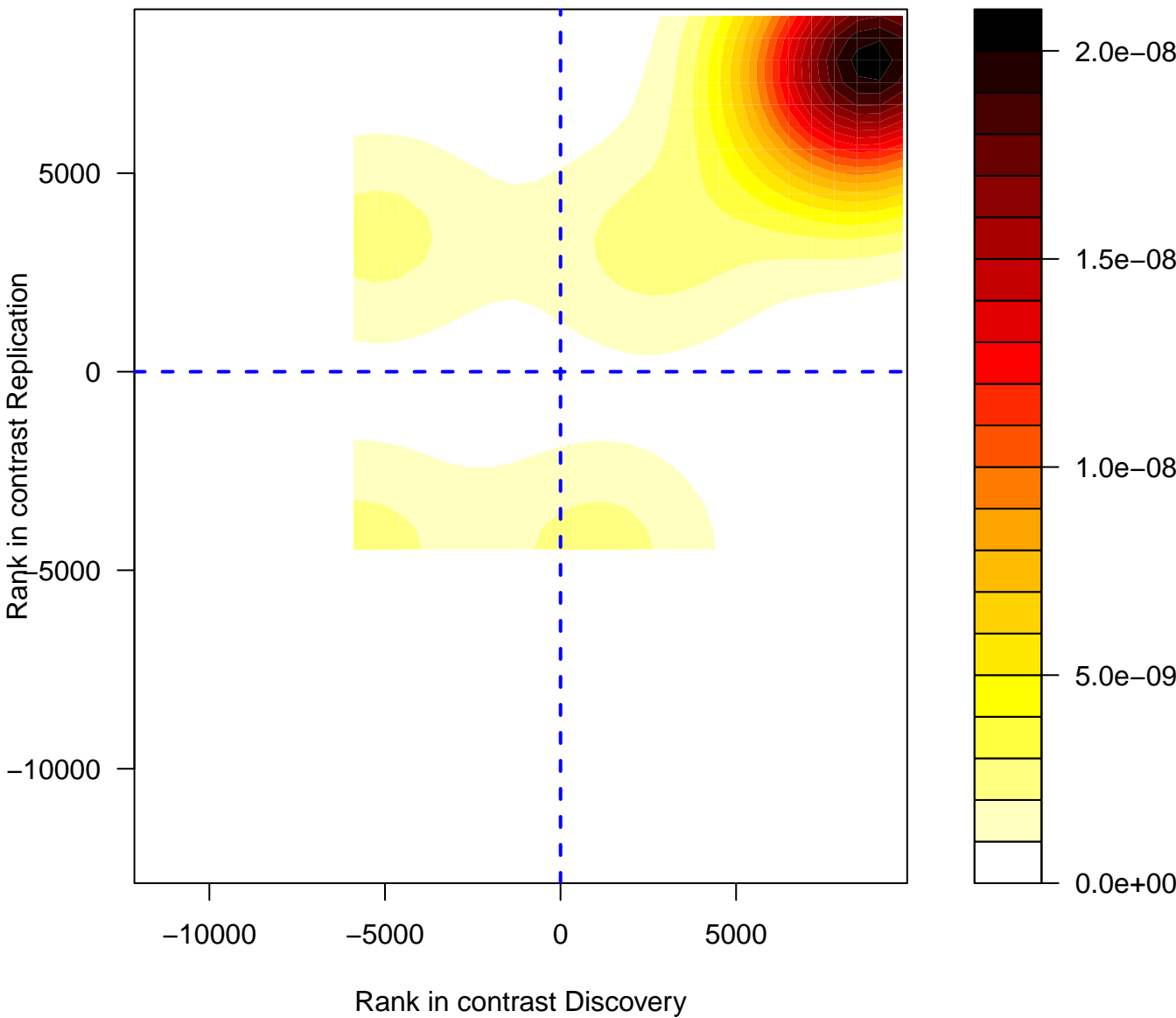
REACTOME_ORGANIC_ANION_TRANSPORT



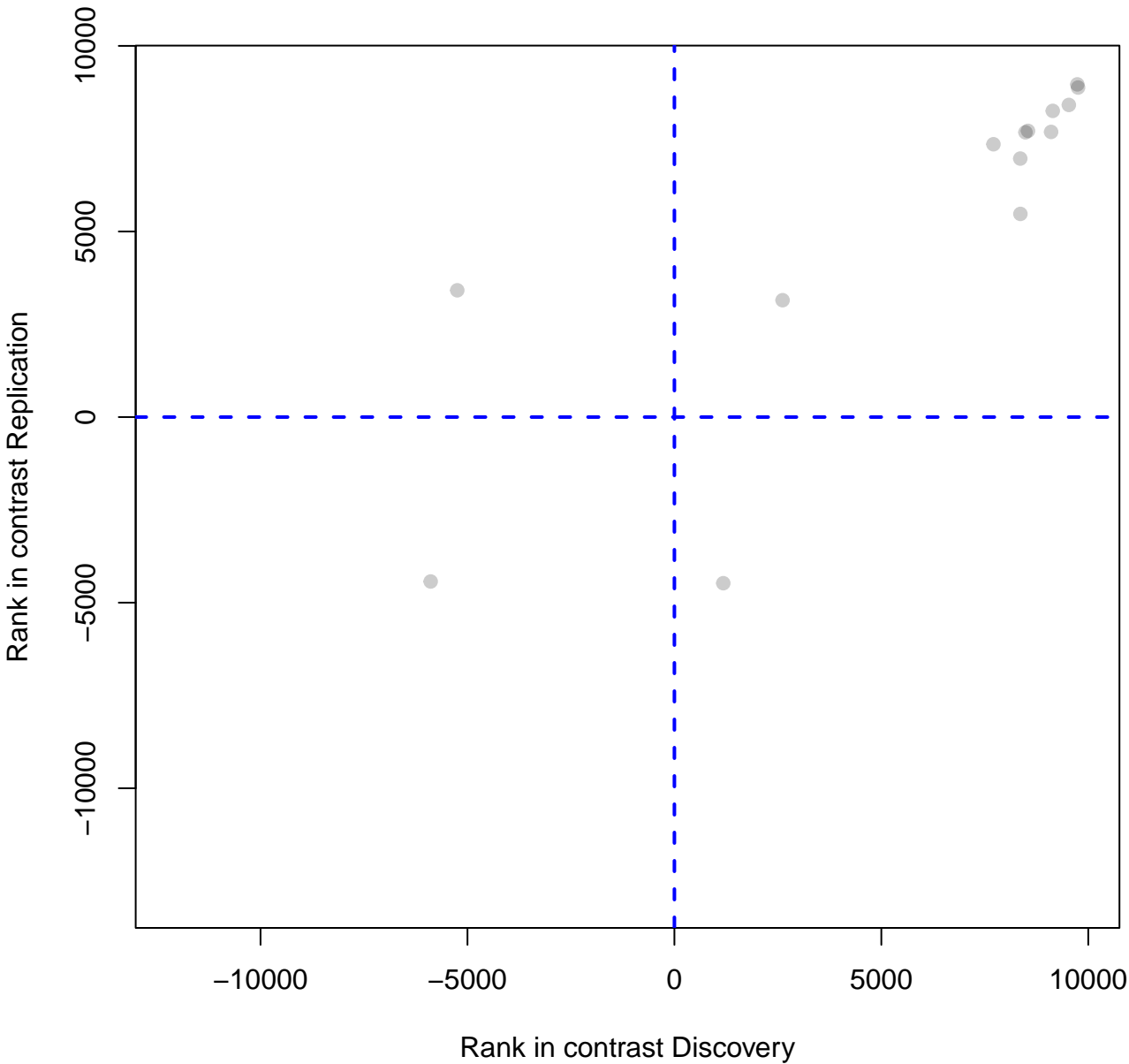
REACTOME_ORGANIC_ANION_TRANSPORT



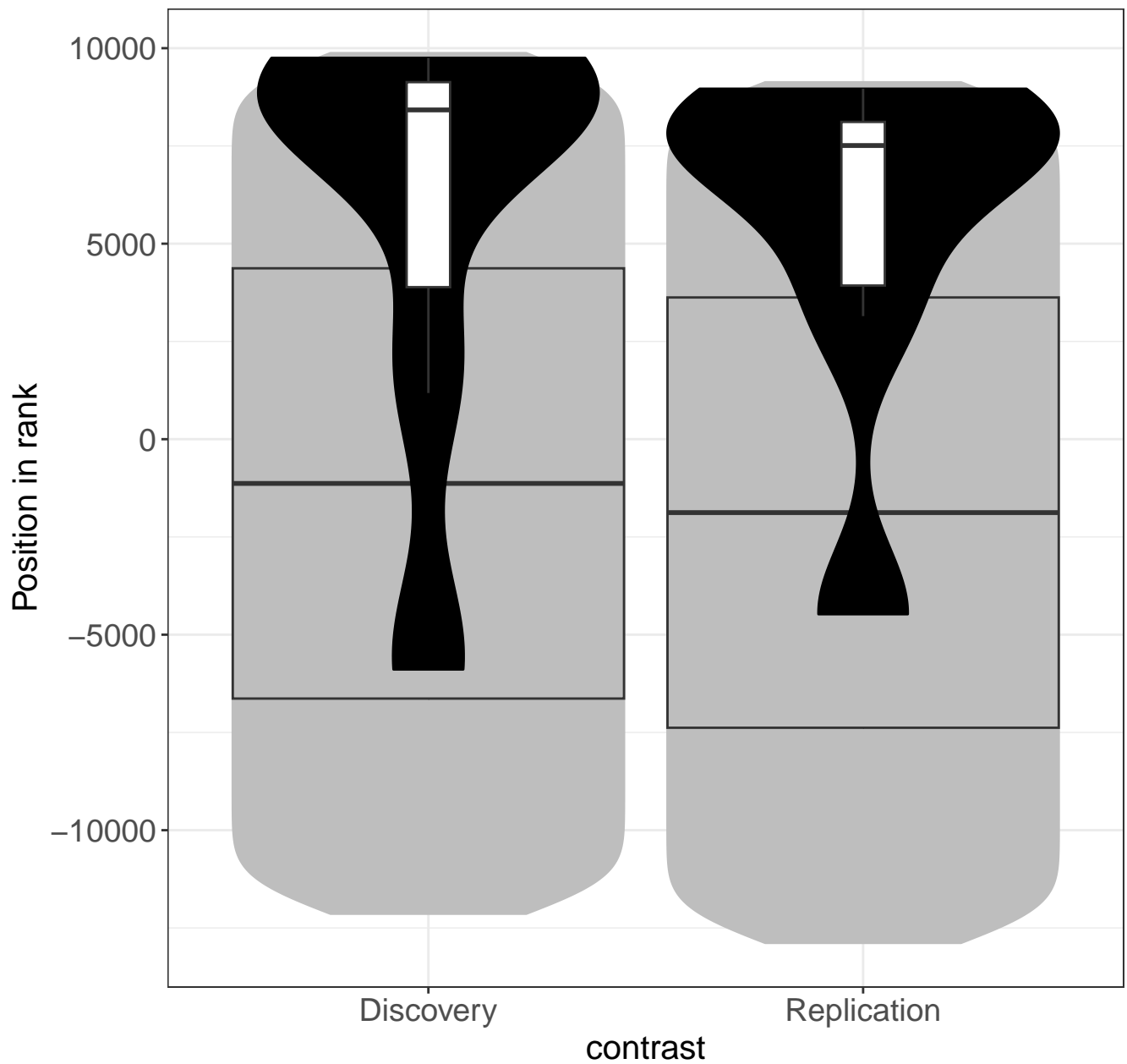
REACTOME_FORMATION_OF_AXIAL_MESODERM



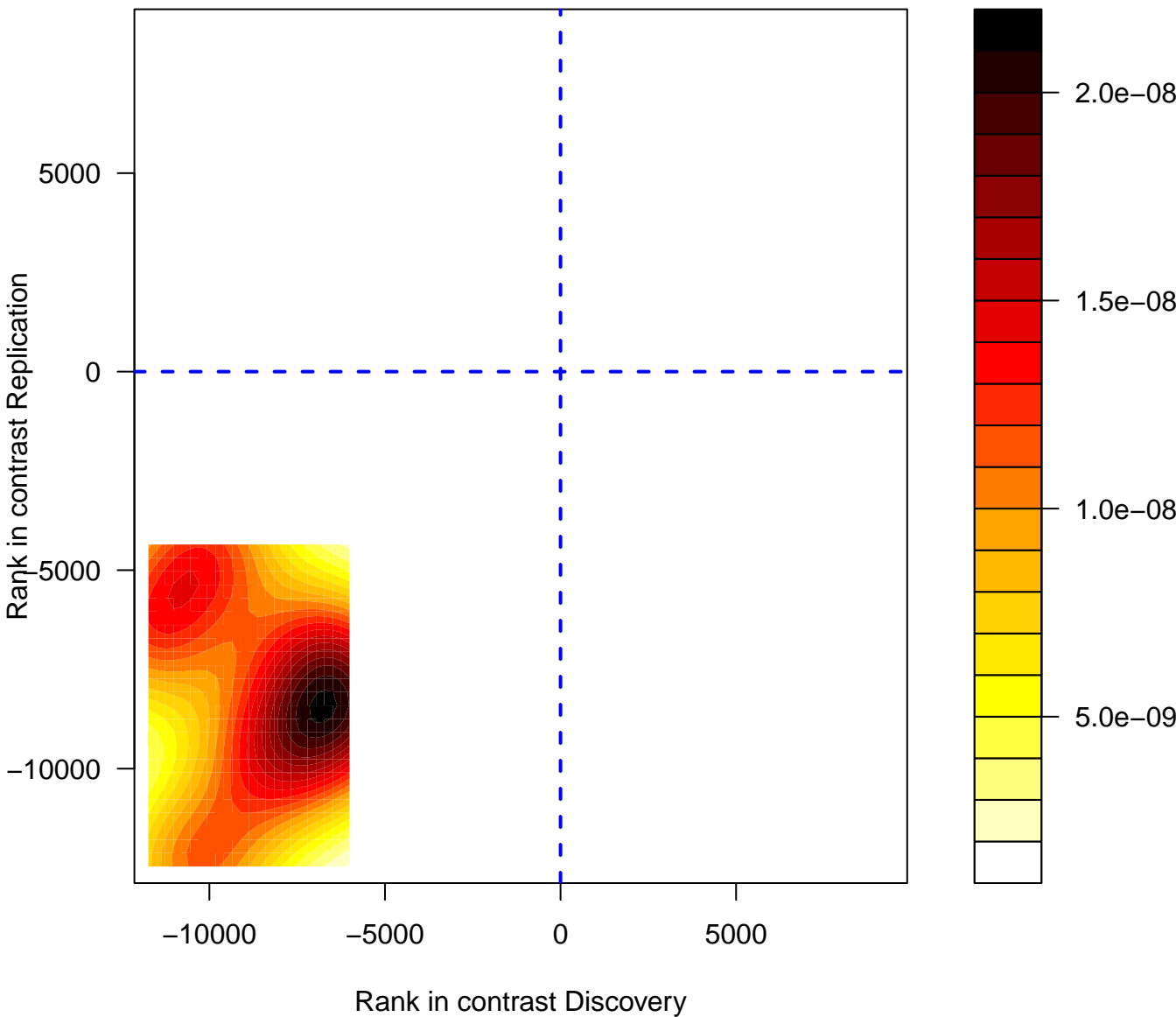
REACTOME_FORMATION_OF_AXIAL_MESODERM



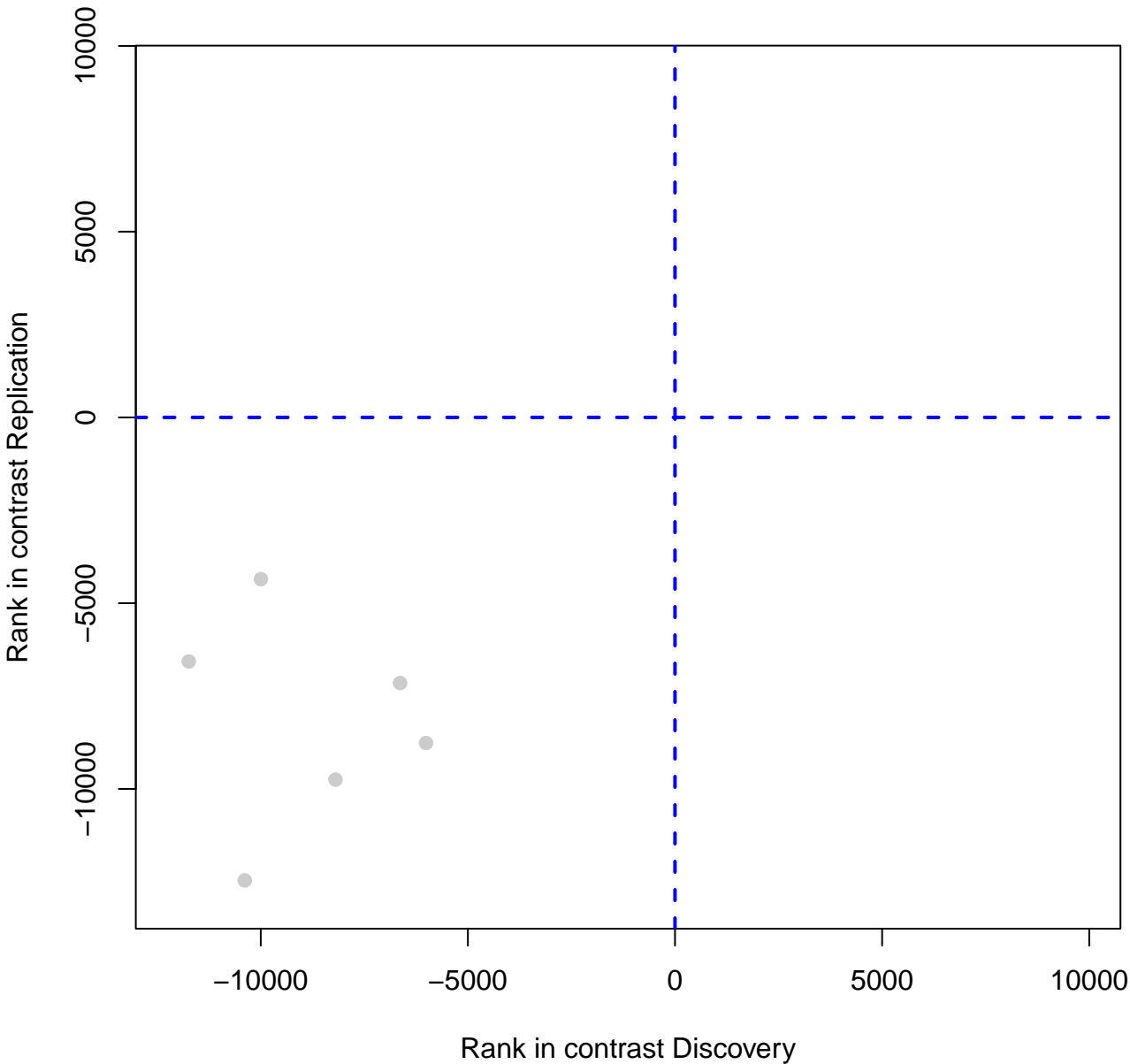
REACTOME_FORMATION_OF_AXIAL_MESOD



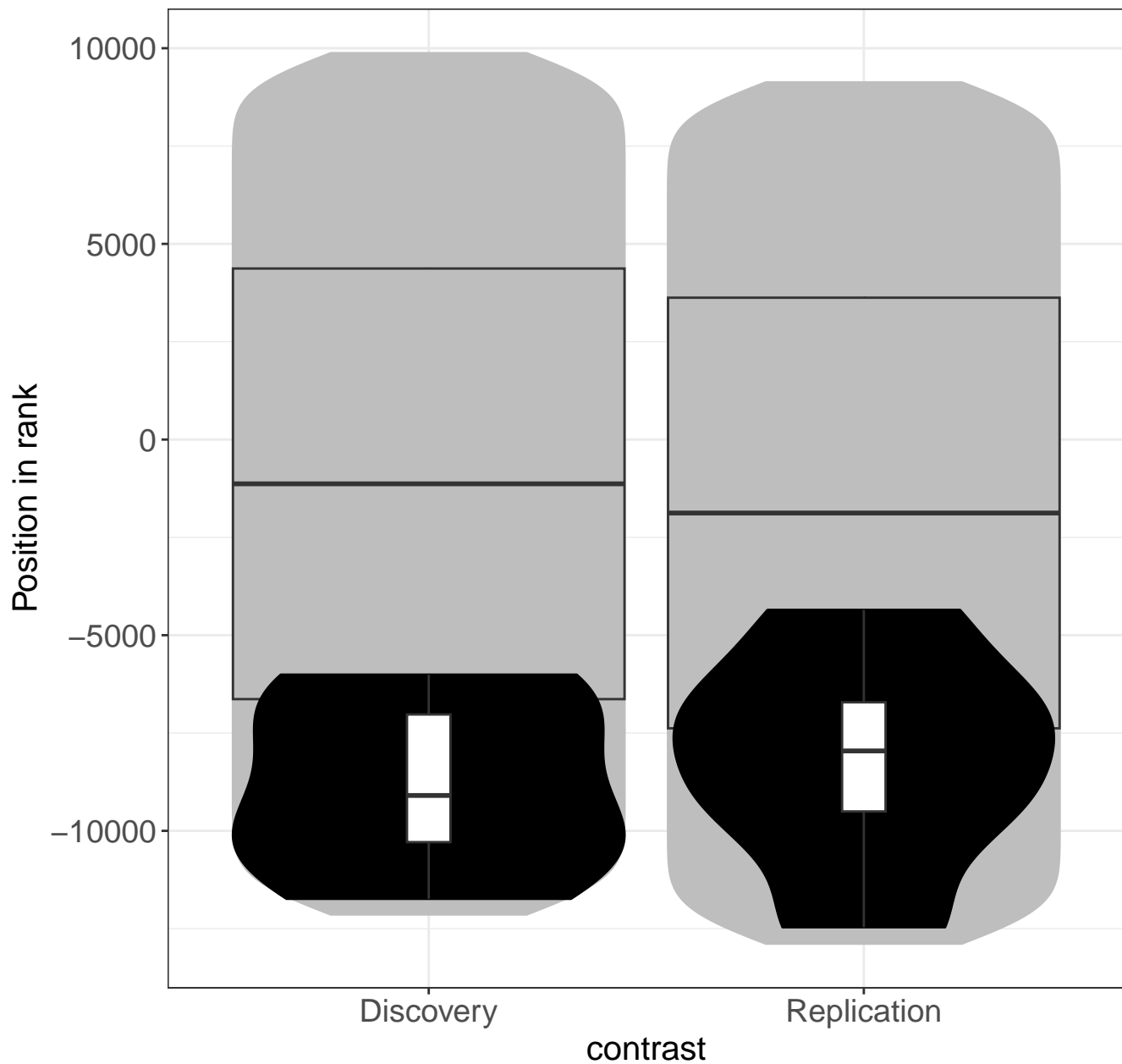
REACTOME_CONJUGATION_OF_BENZOATE_WITH_GLYC



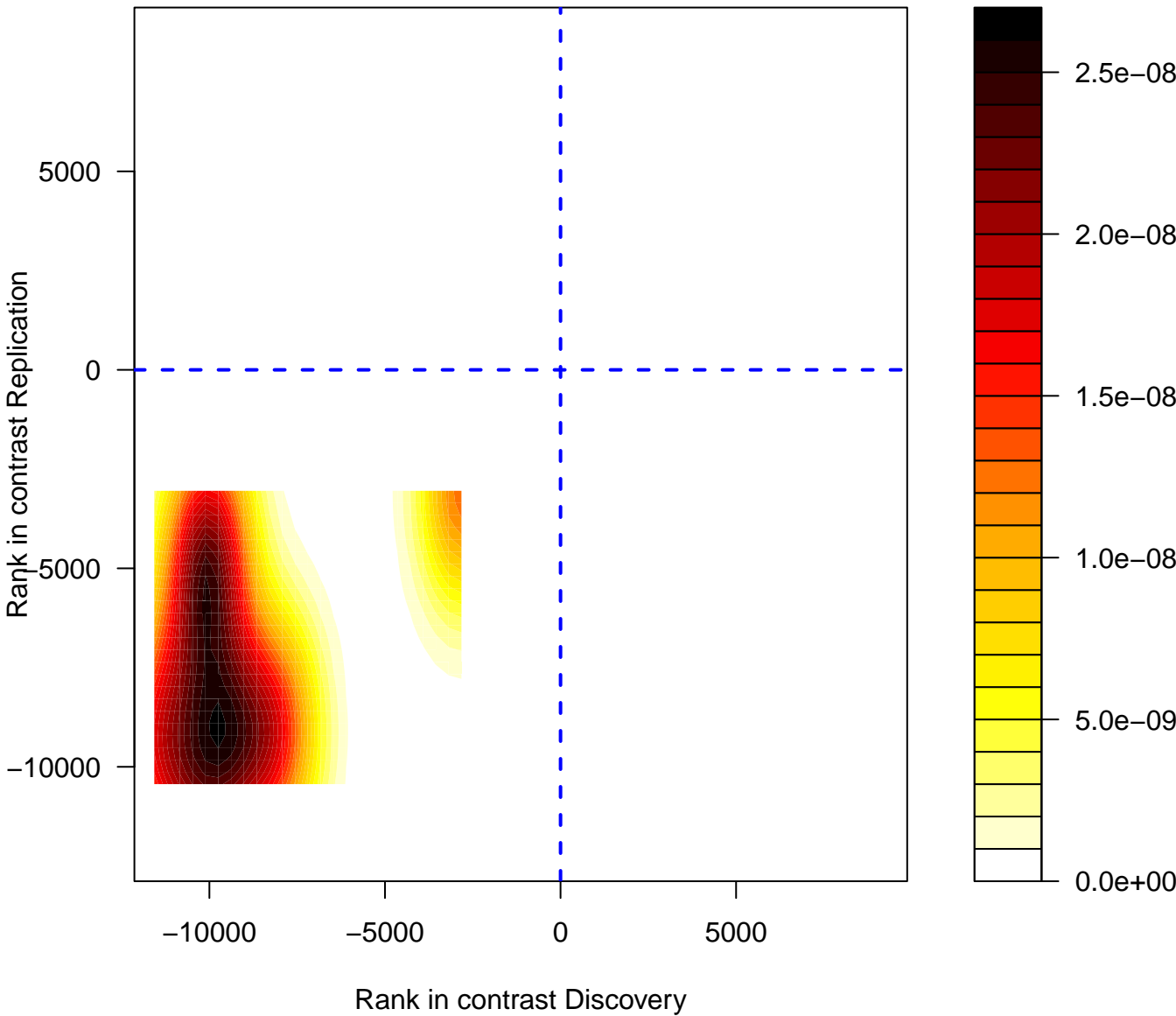
REACTOME_CONJUGATION_OF_BENZOATE_WITH_GLYCINE



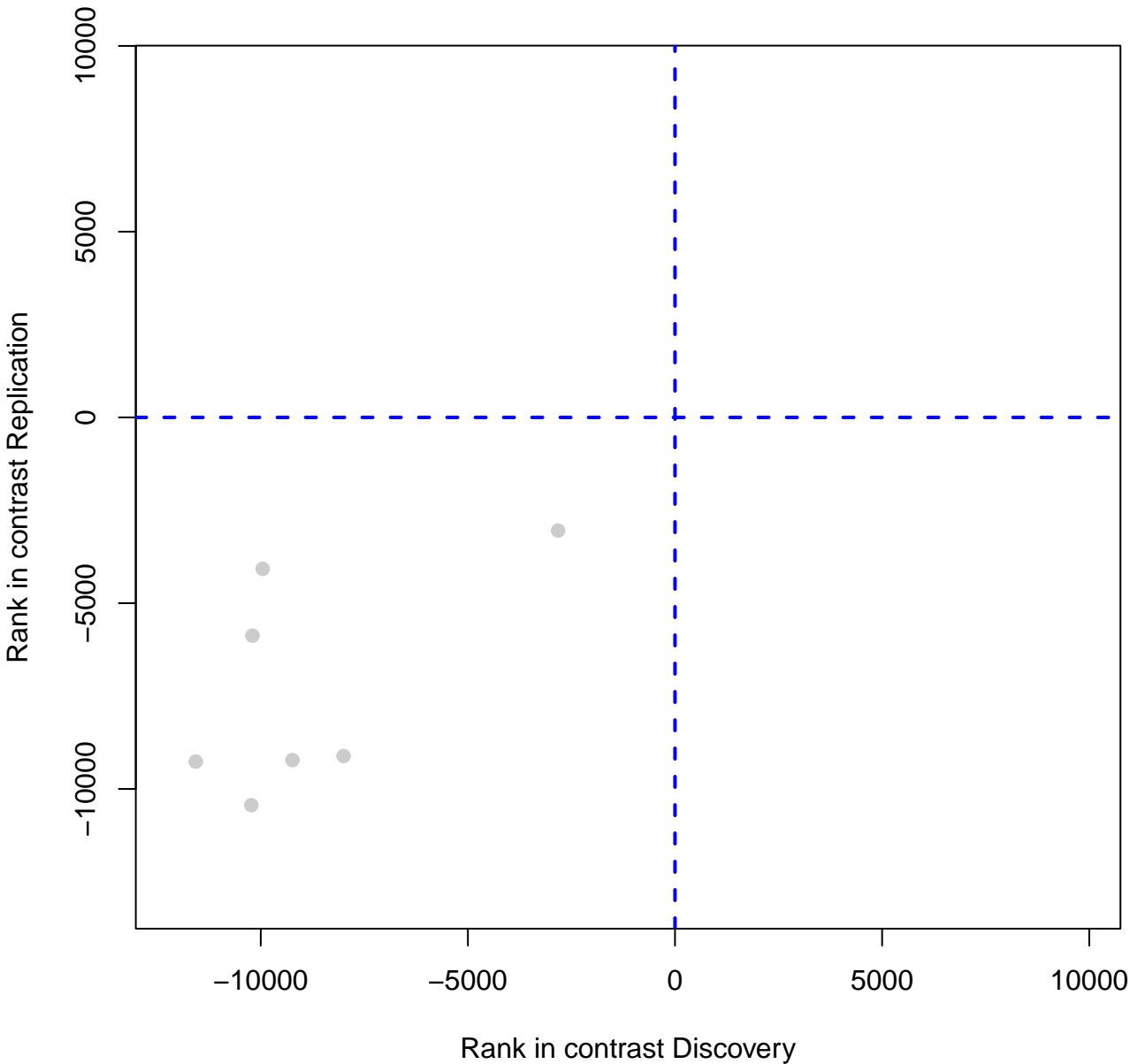
REACTOME_CONJUGATION_OF_BENZOATE



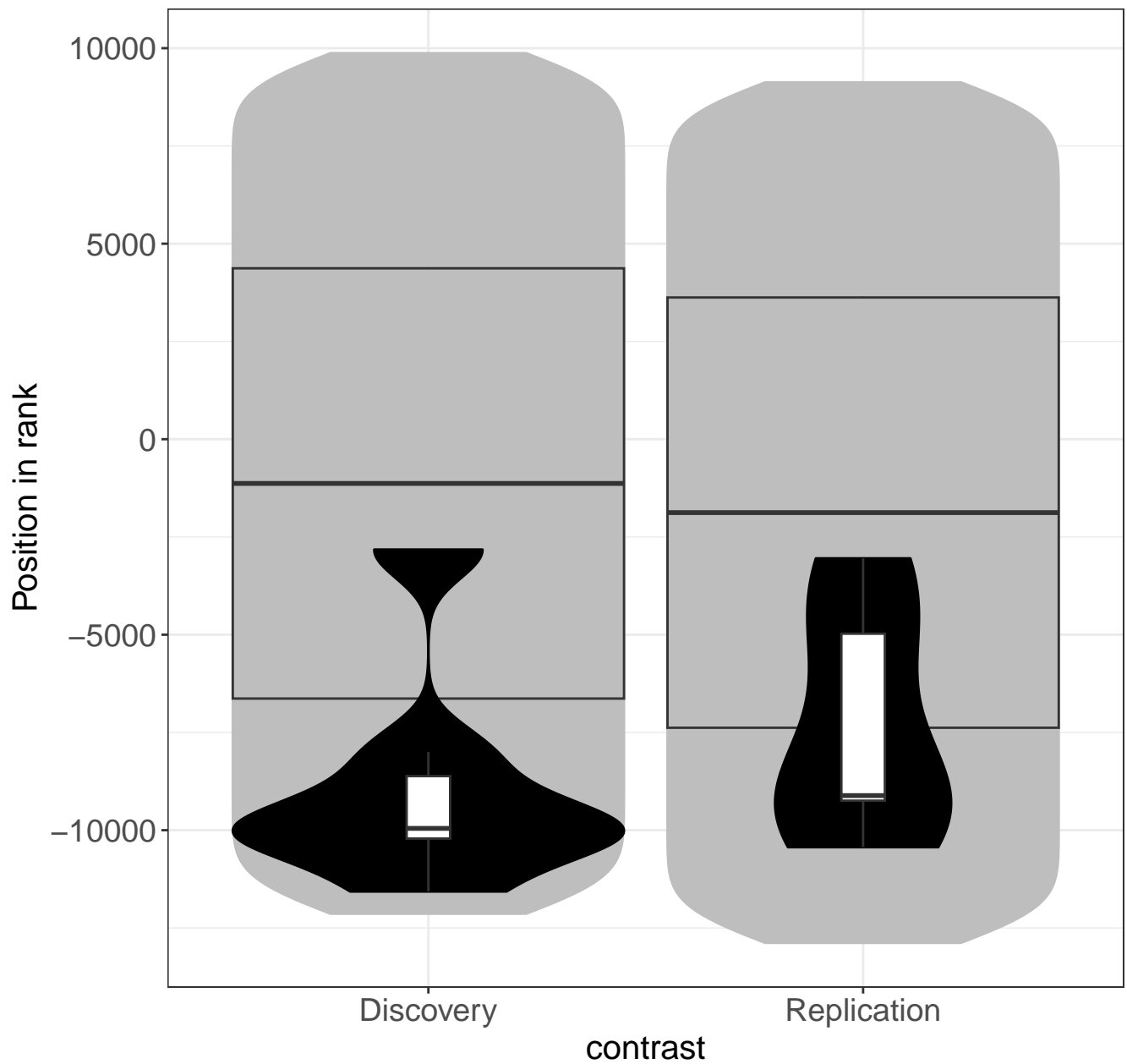
REACTOME_DIGESTION_OF_DIETARY_LIPID



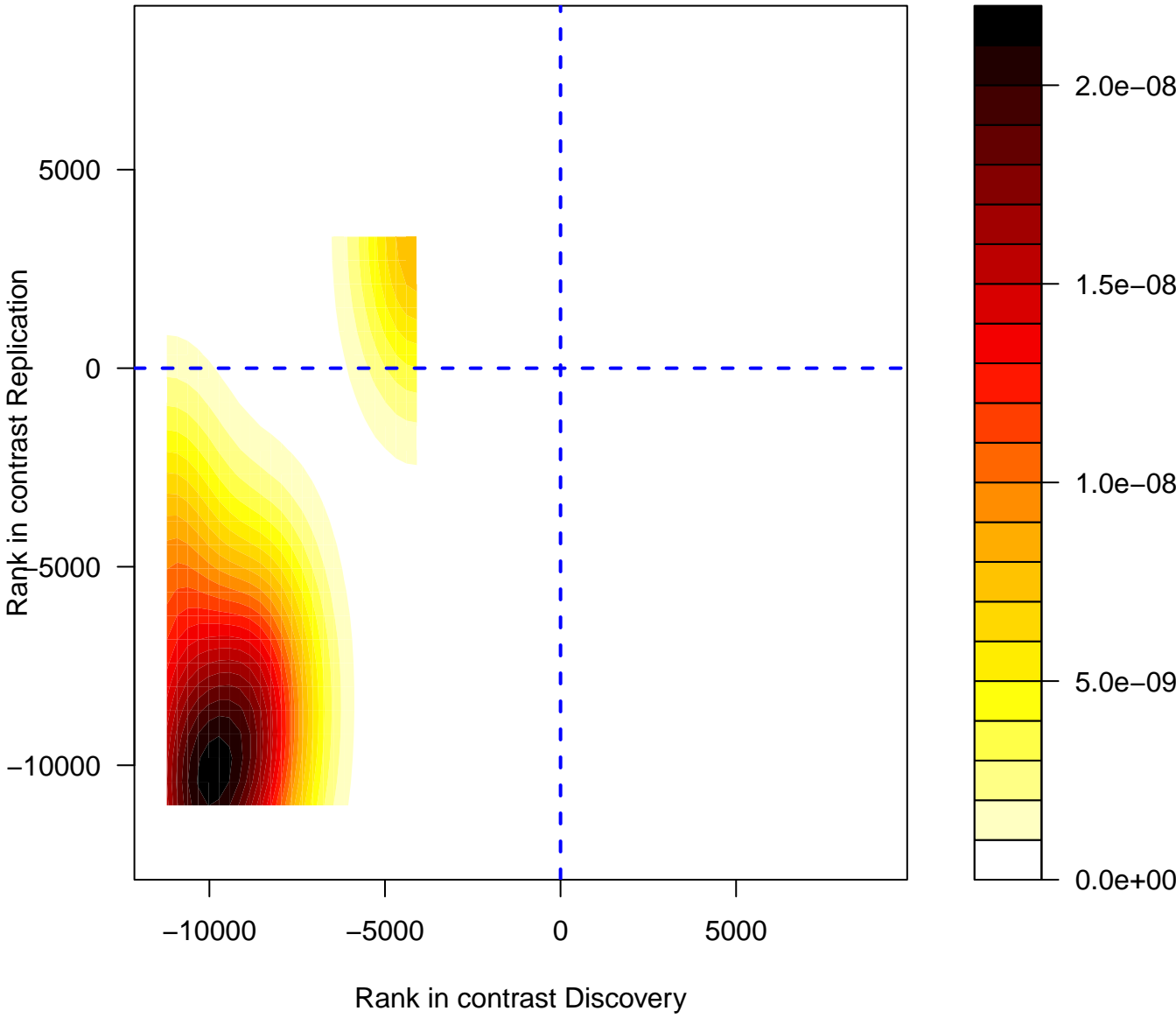
REACTOME_DIGESTION_OF_DIETARY_LIPID



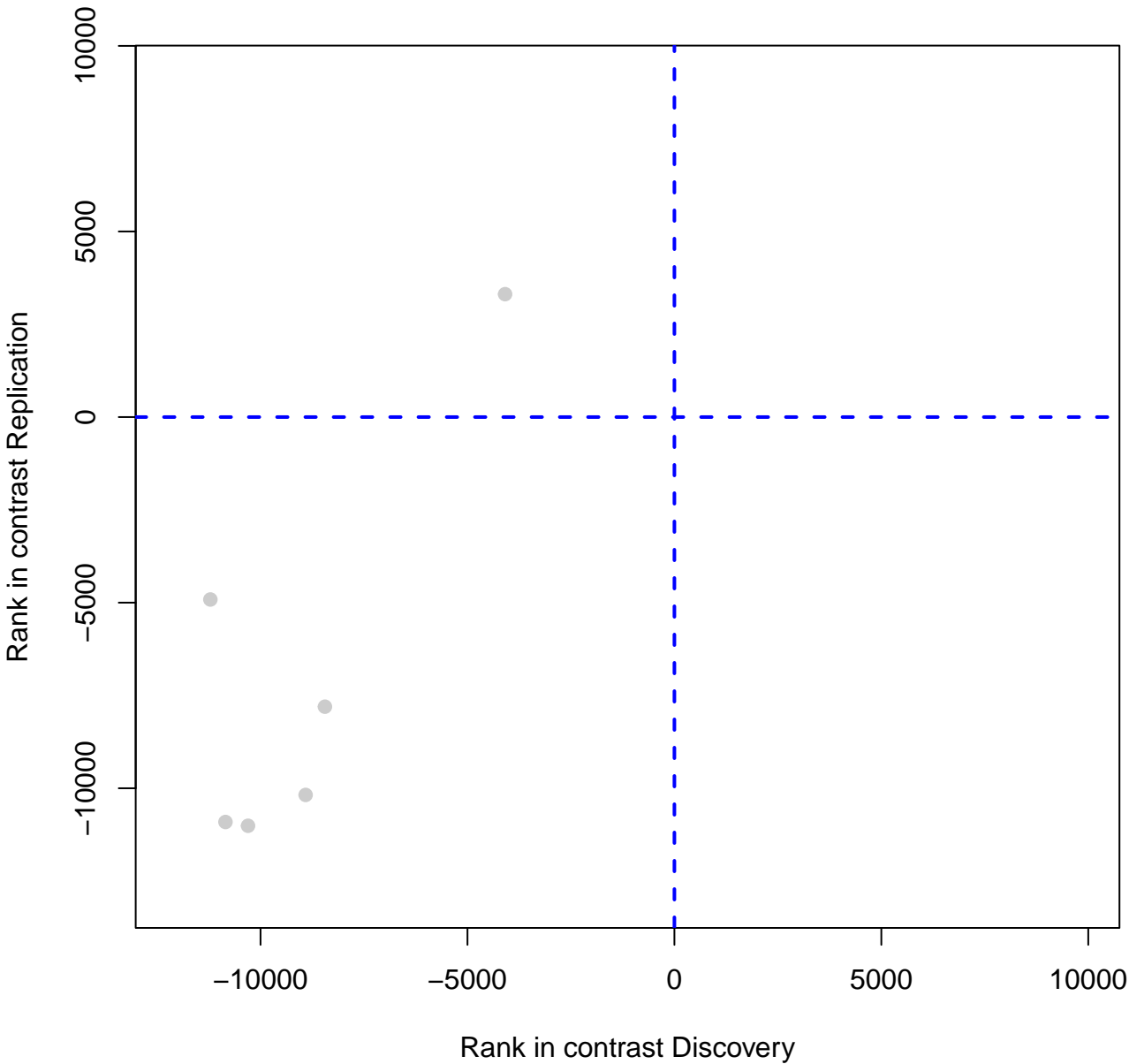
REACTOME_DIGESTION_OF_DIETARY_LIPID



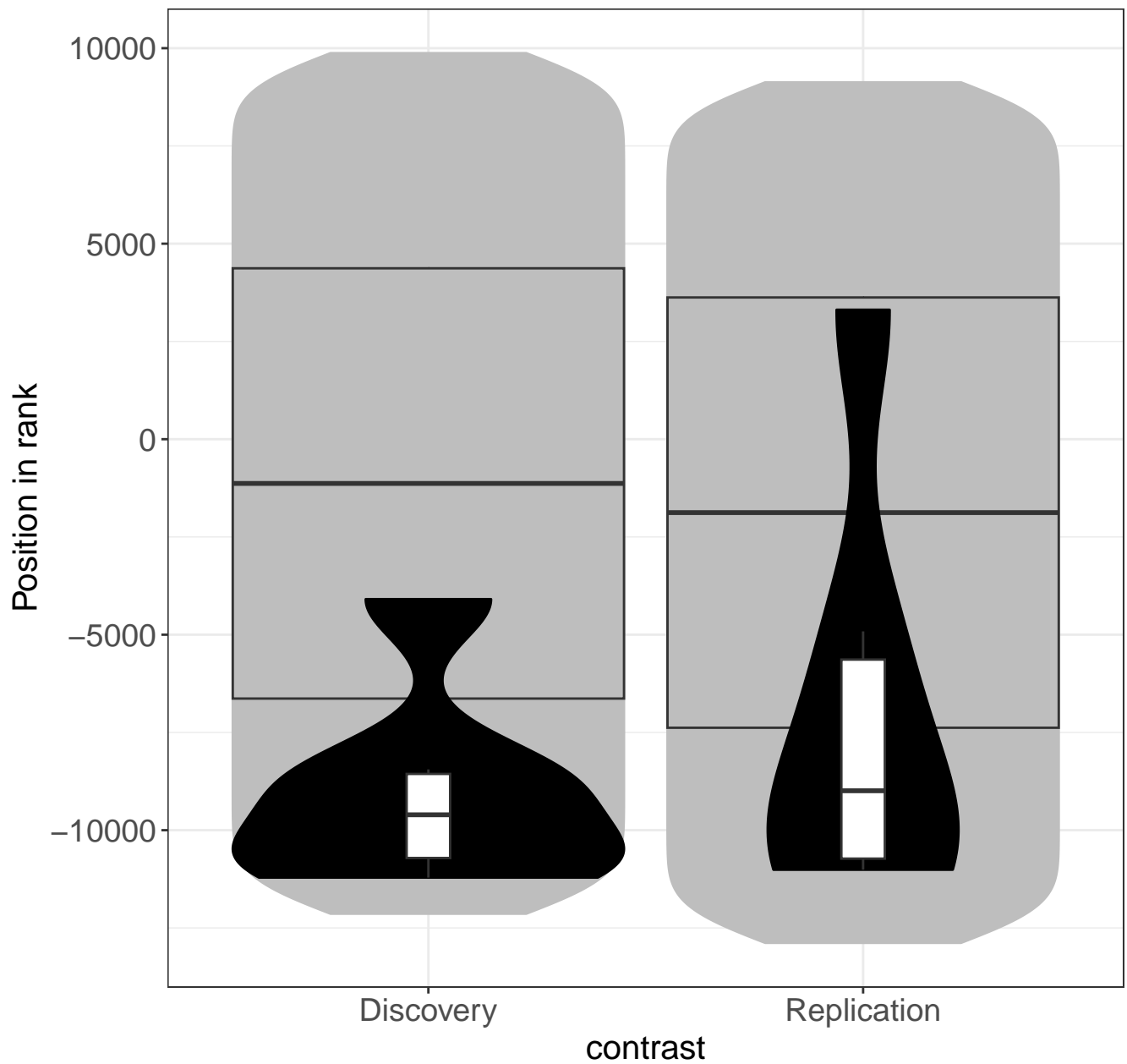
REACTOME_MINERALOCORTICOID_BIOSYNTHESIS



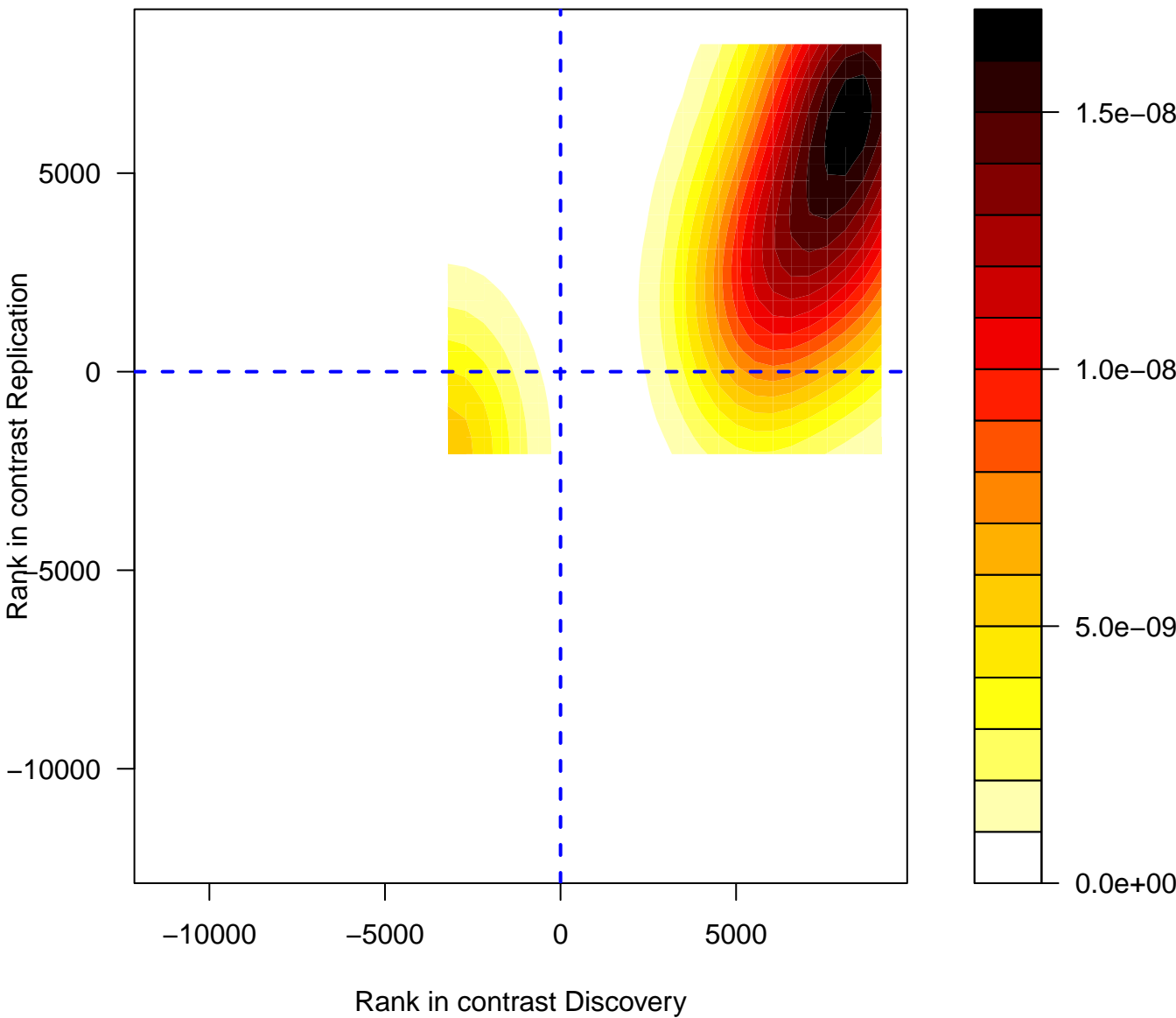
REACTOME_MINERALOCORTICOID_BIOSYNTHESIS



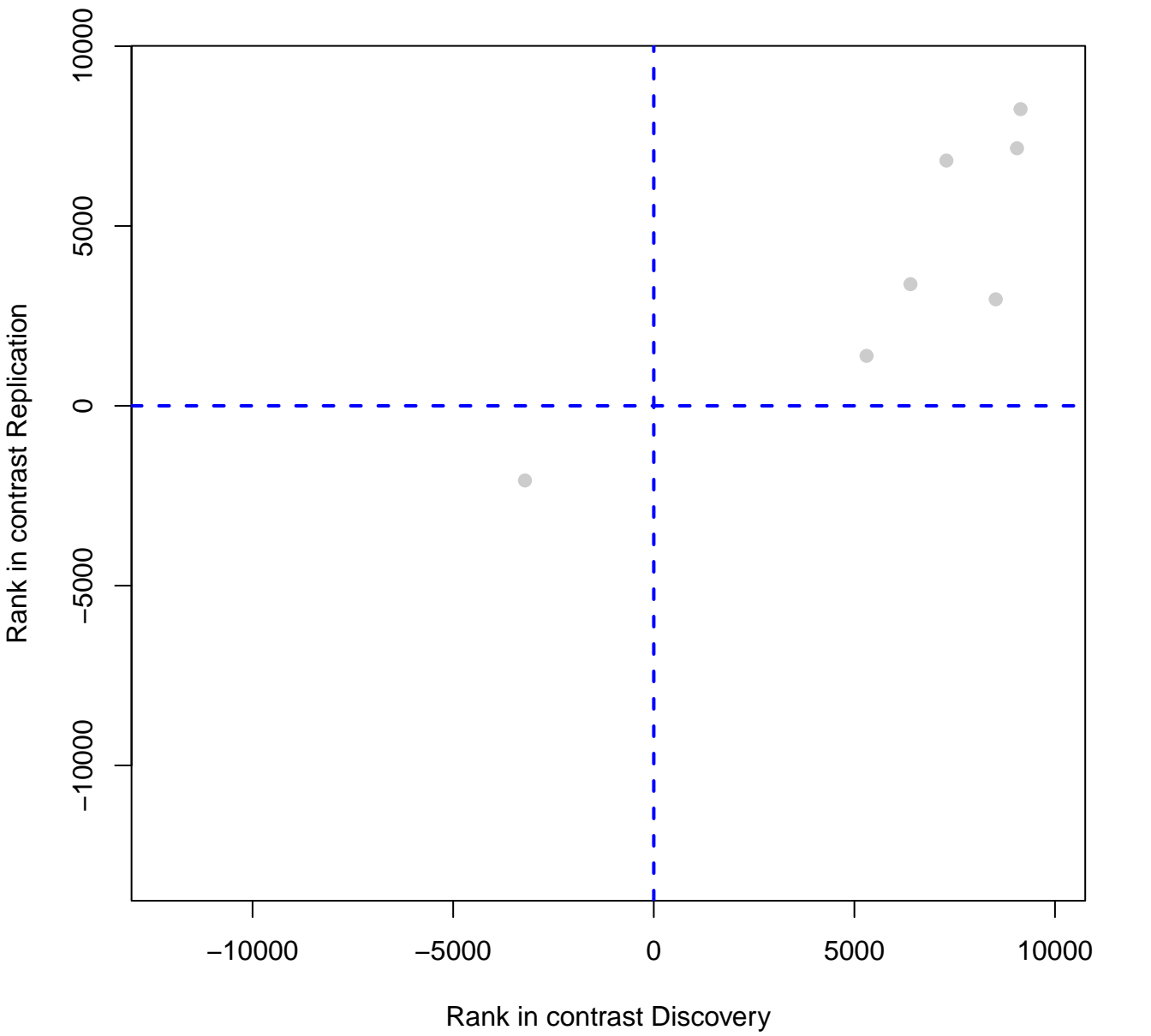
REACTOME_MINERALOCORTICOID_BIOSYN



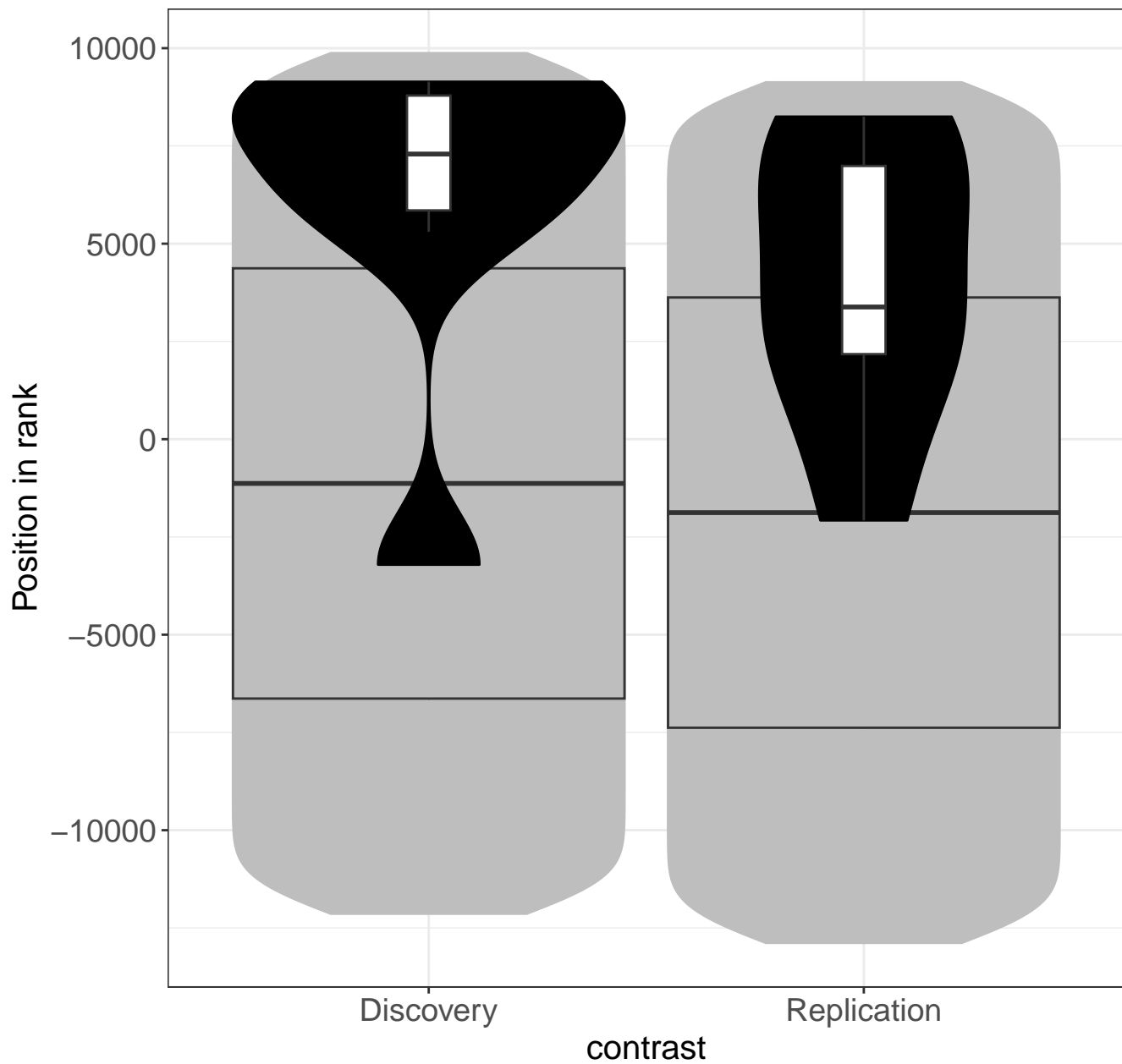
E_EPITHELIAL_MESENCHYMAL_TRANSITION_EMT_DURING



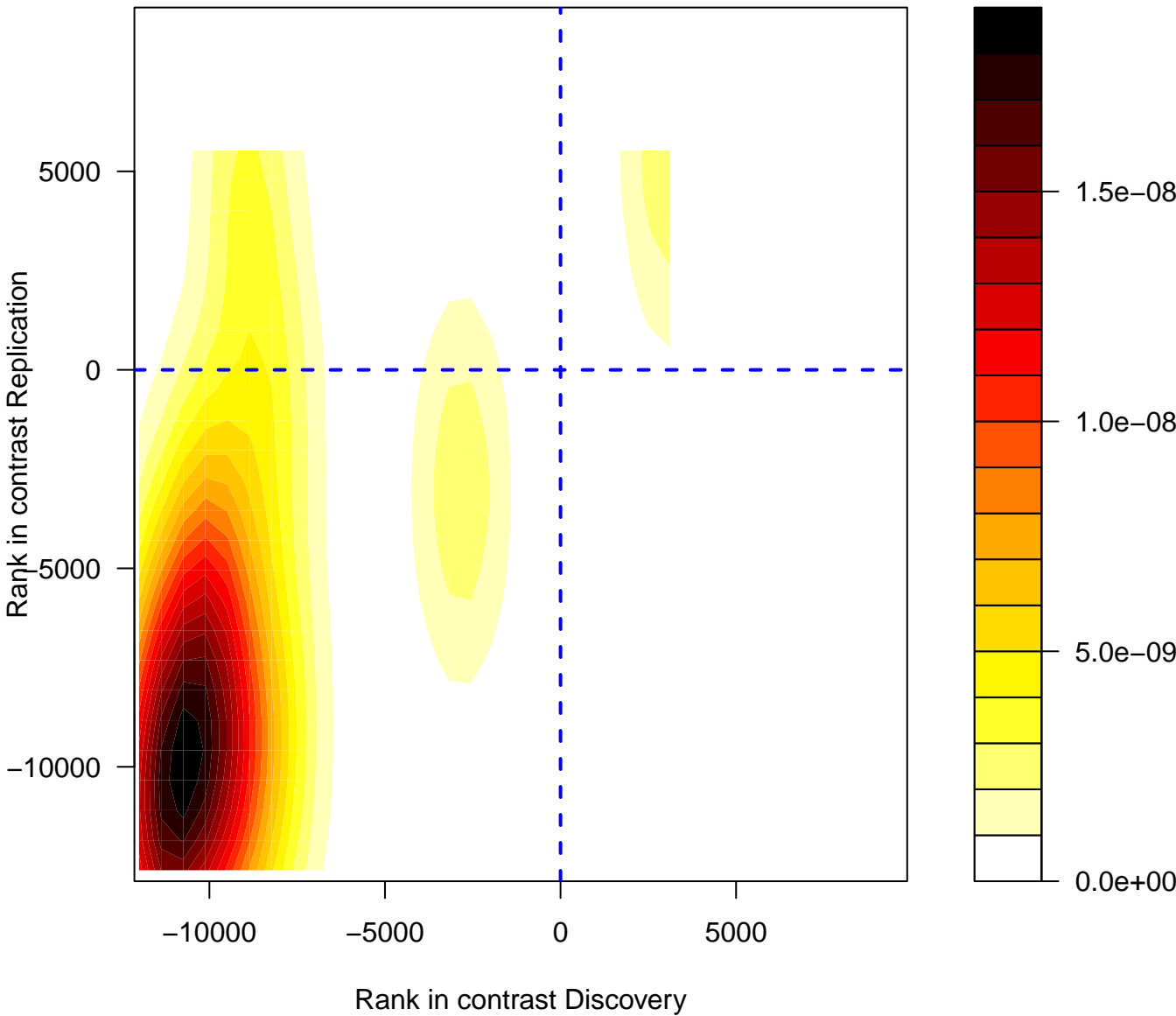
CTOME_EPITHELIAL_MESENCHYMAL_TRANSITION_EMT_DURING_GASTR



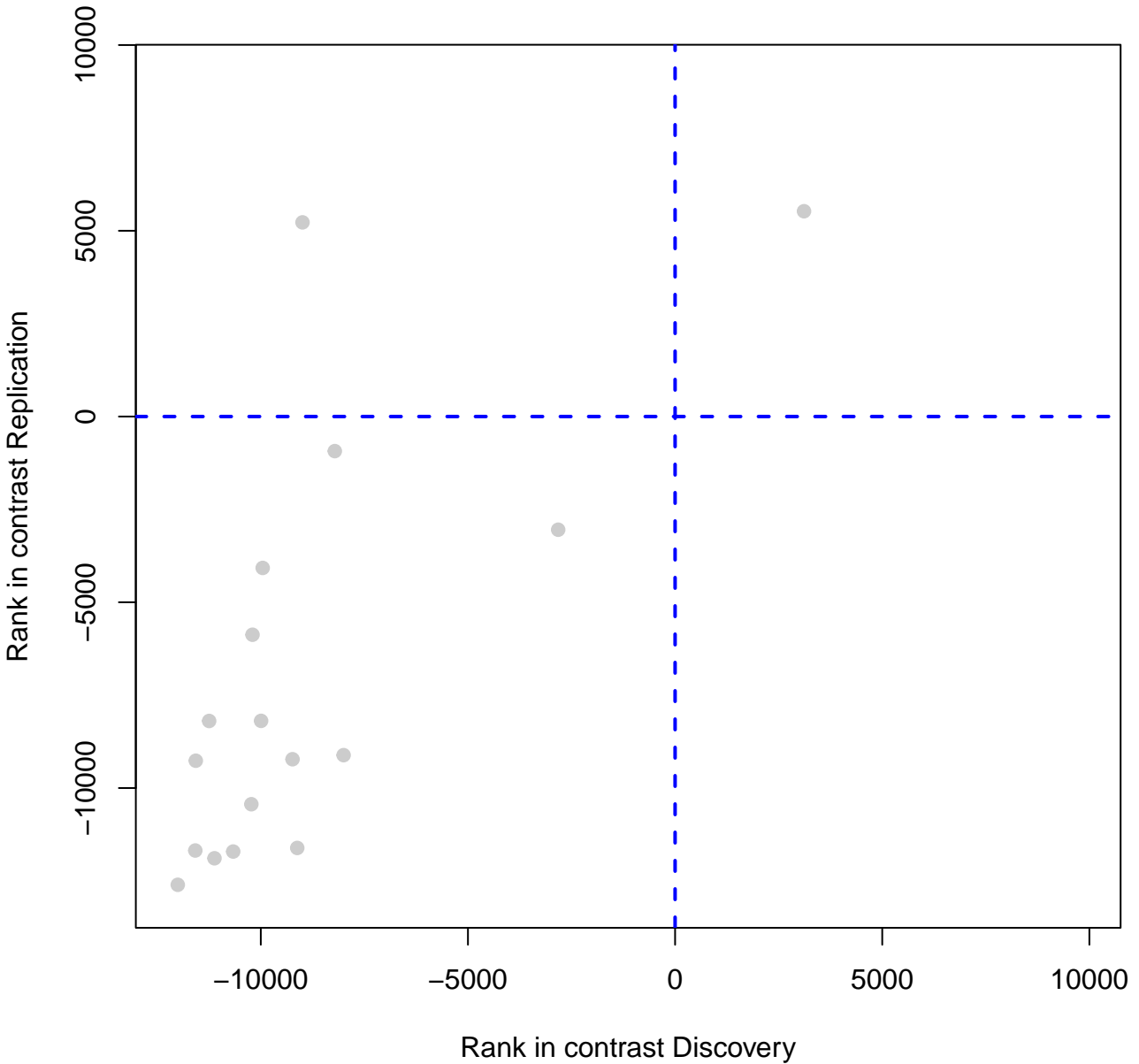
REACTOME_EPITHELIAL_MESENCHYMAL_TR



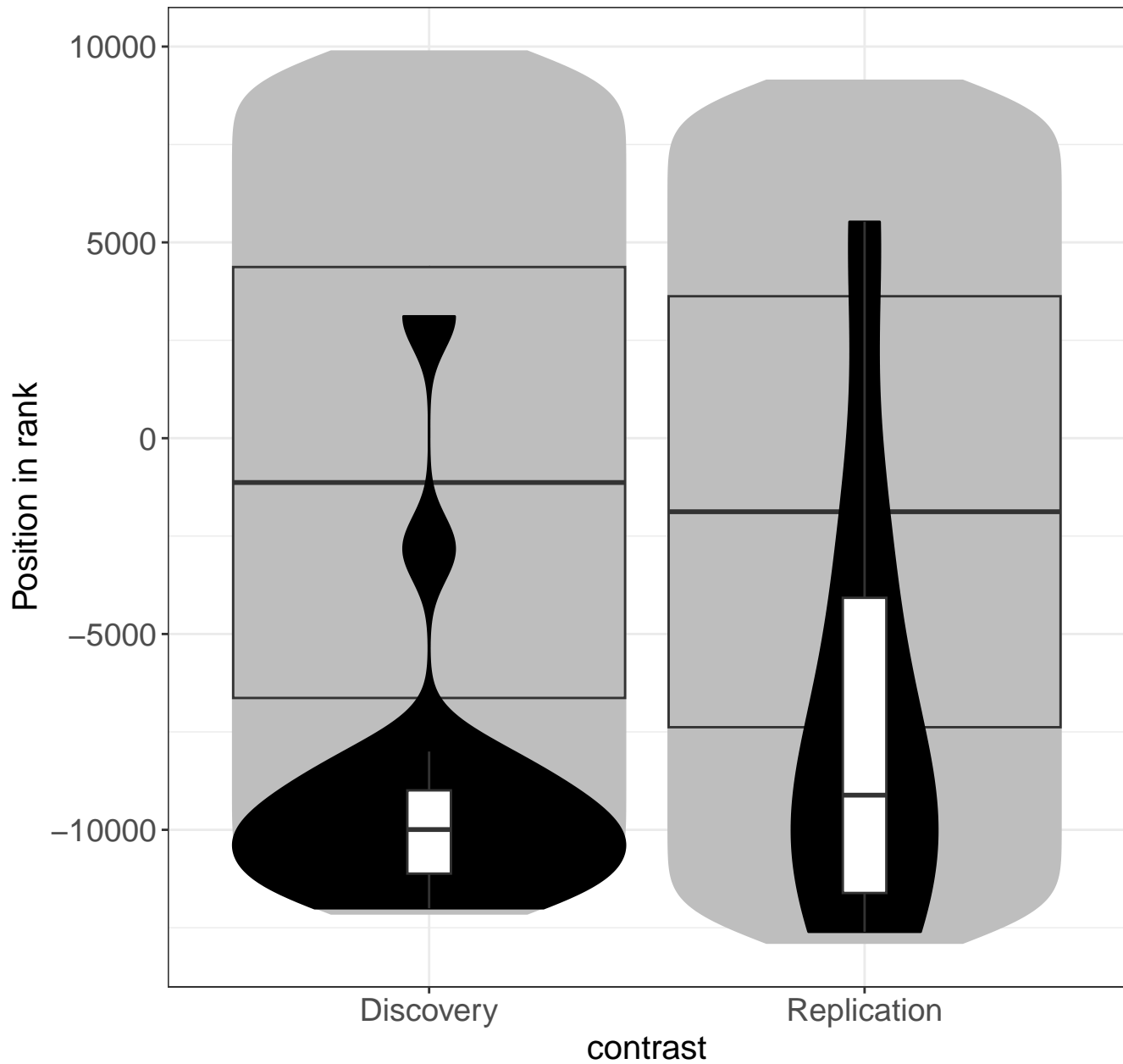
REACTOME_DIGESTION



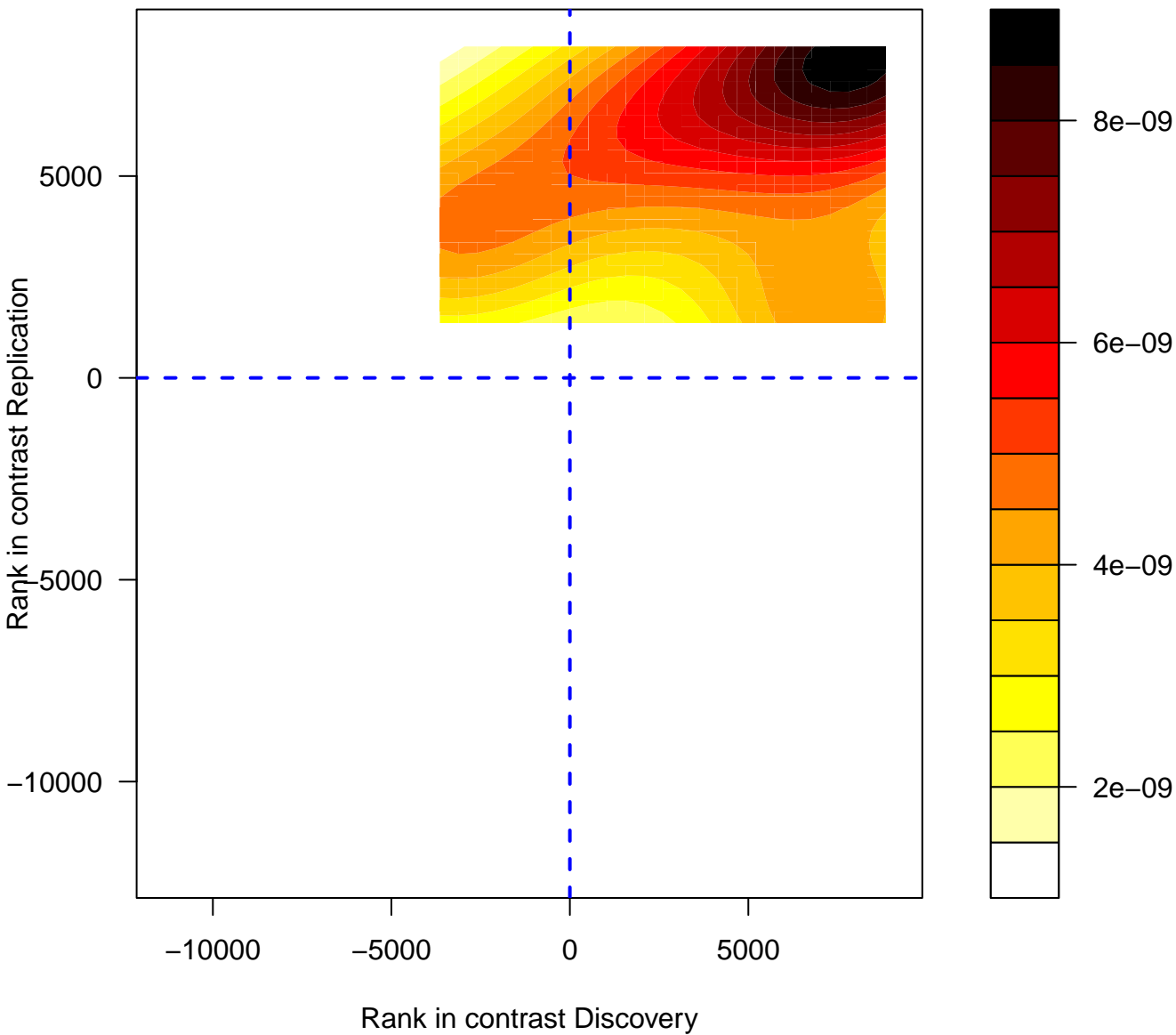
REACTOME_DIGESTION



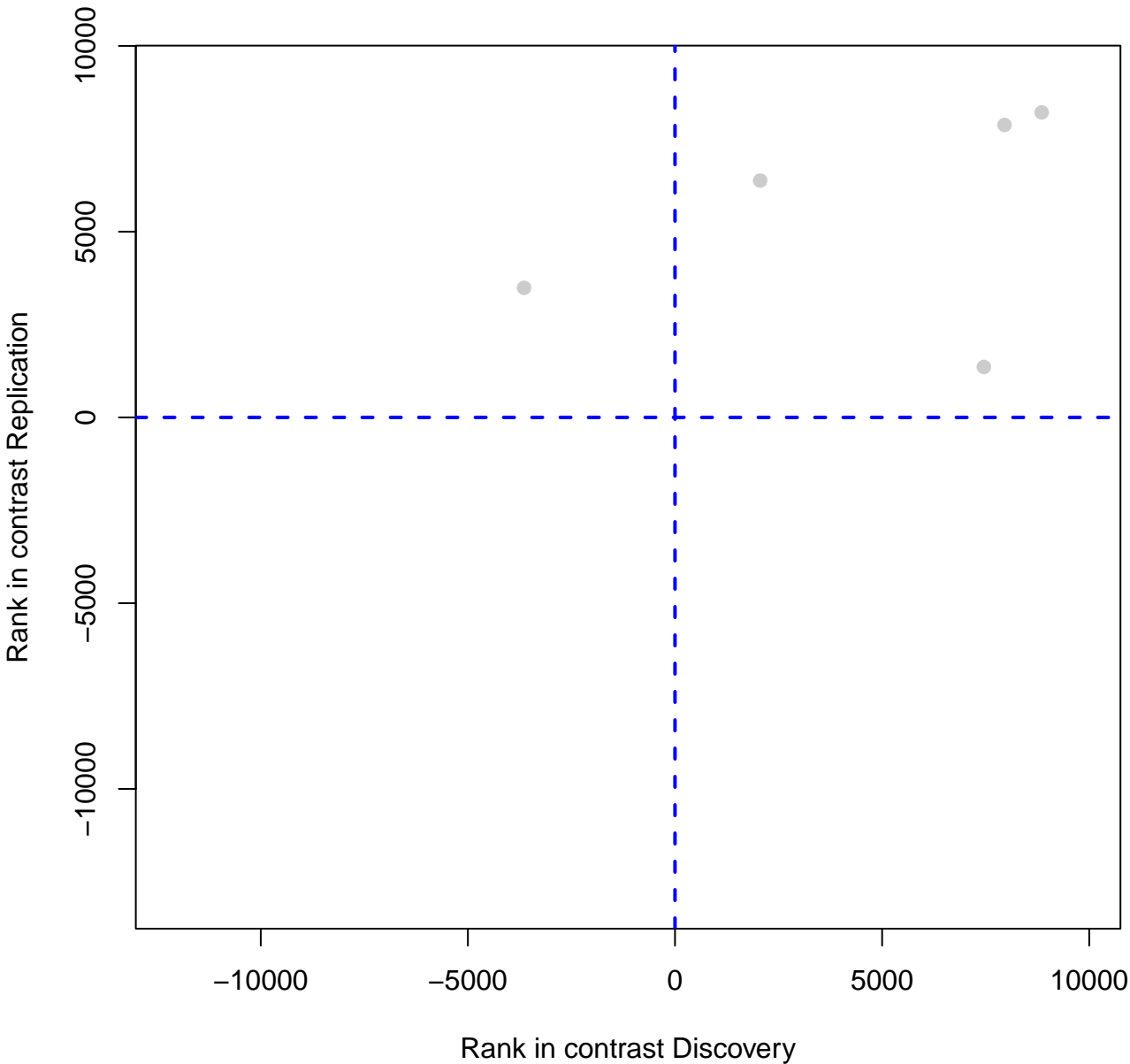
REACTOME_DIGESTION



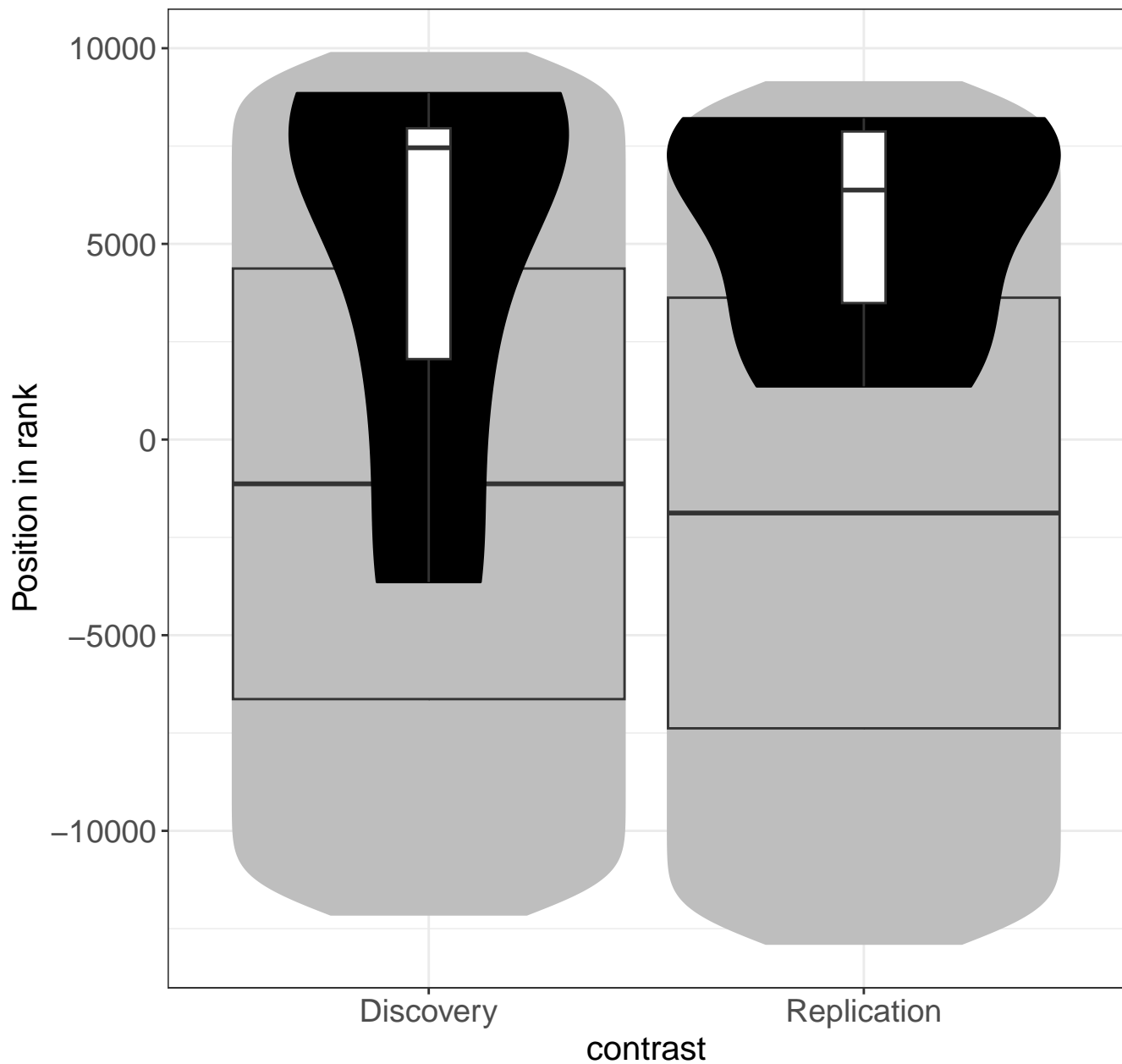
REACTOME_HYALURONAN_BIOSYNTHESIS_AND_EXPO



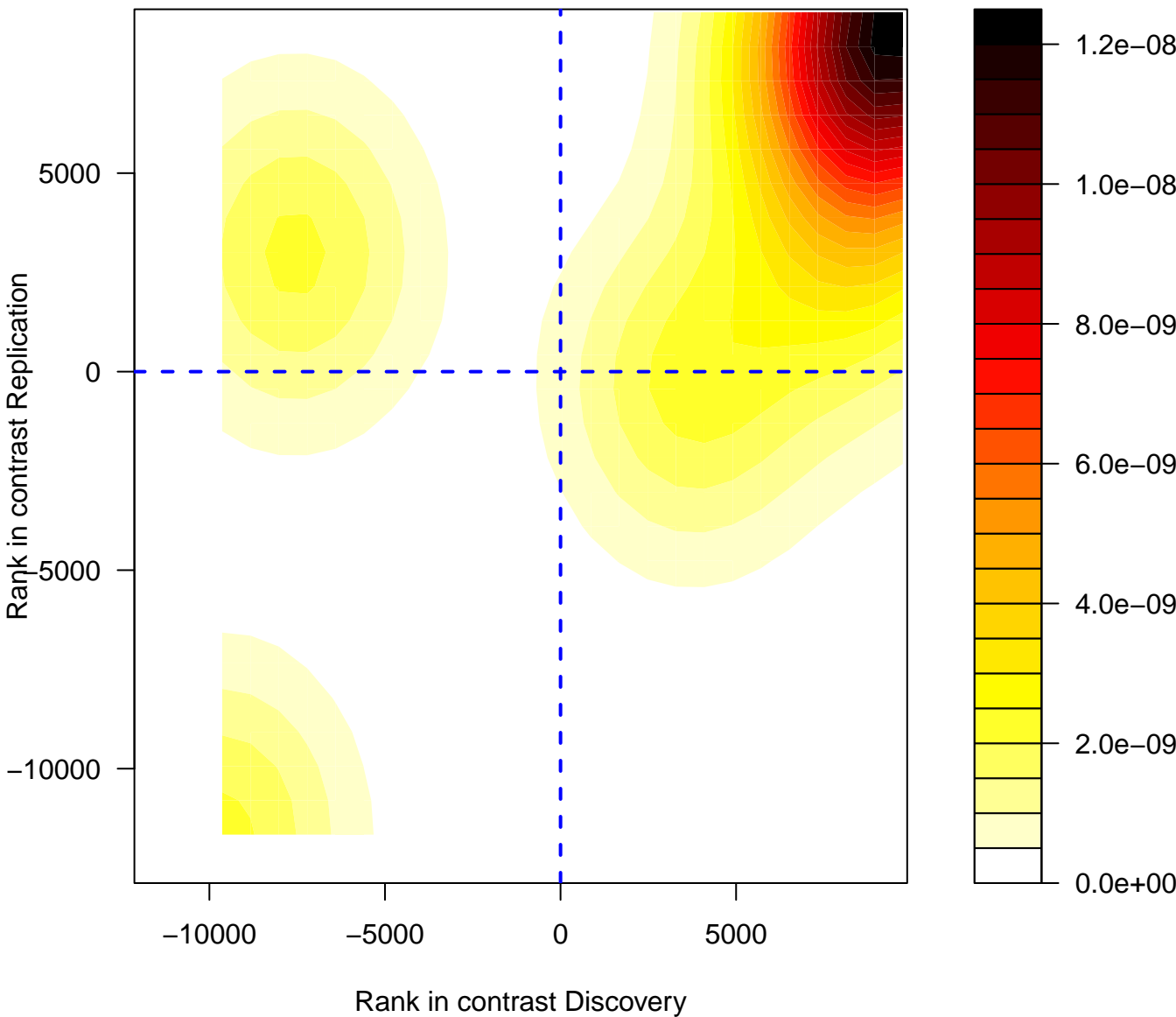
REACTOME_HYALURONAN_BIOSYNTHESIS_AND_EXPORT



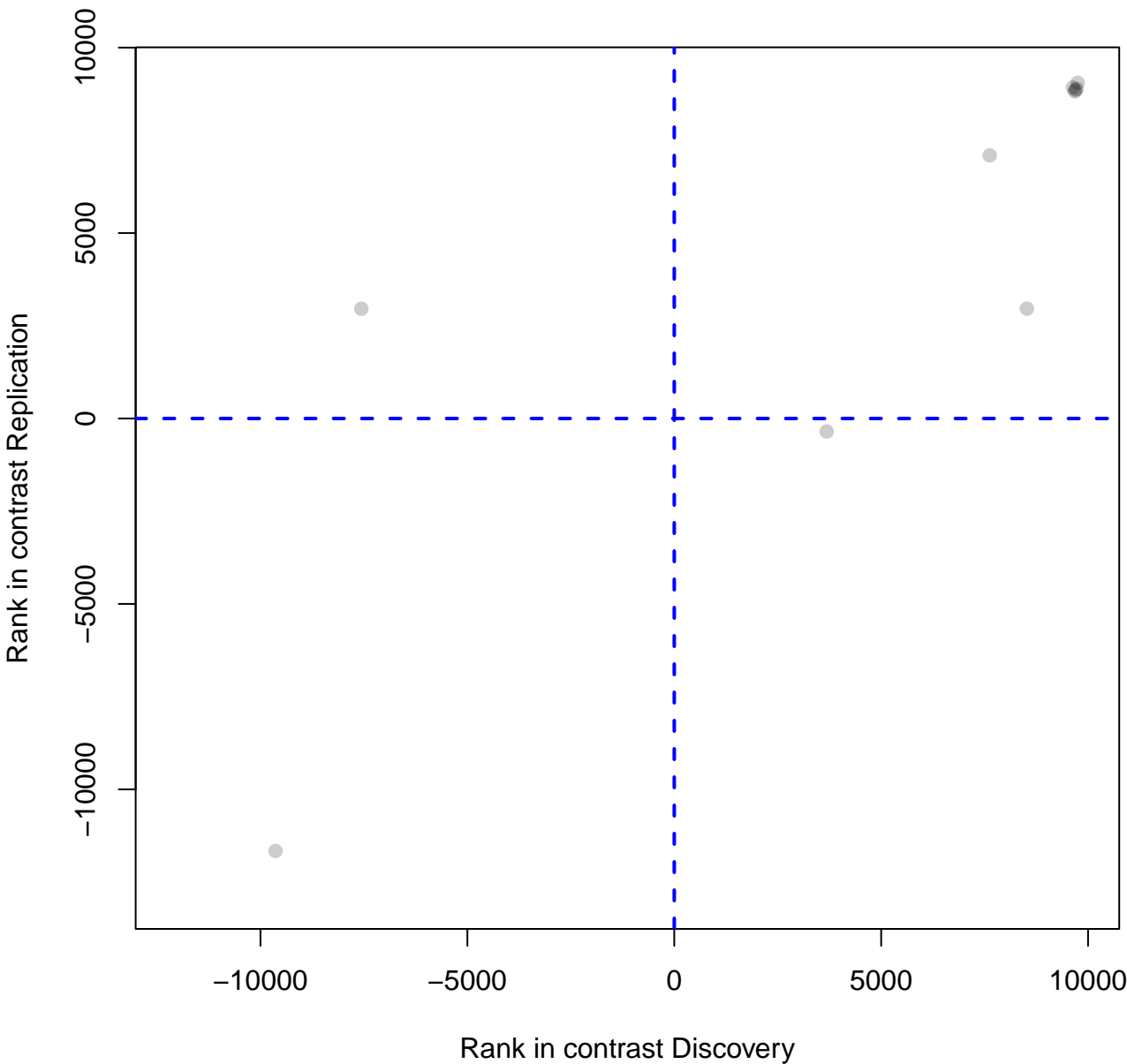
REACTOME_HYALURONAN_BIOSYNTHESIS_



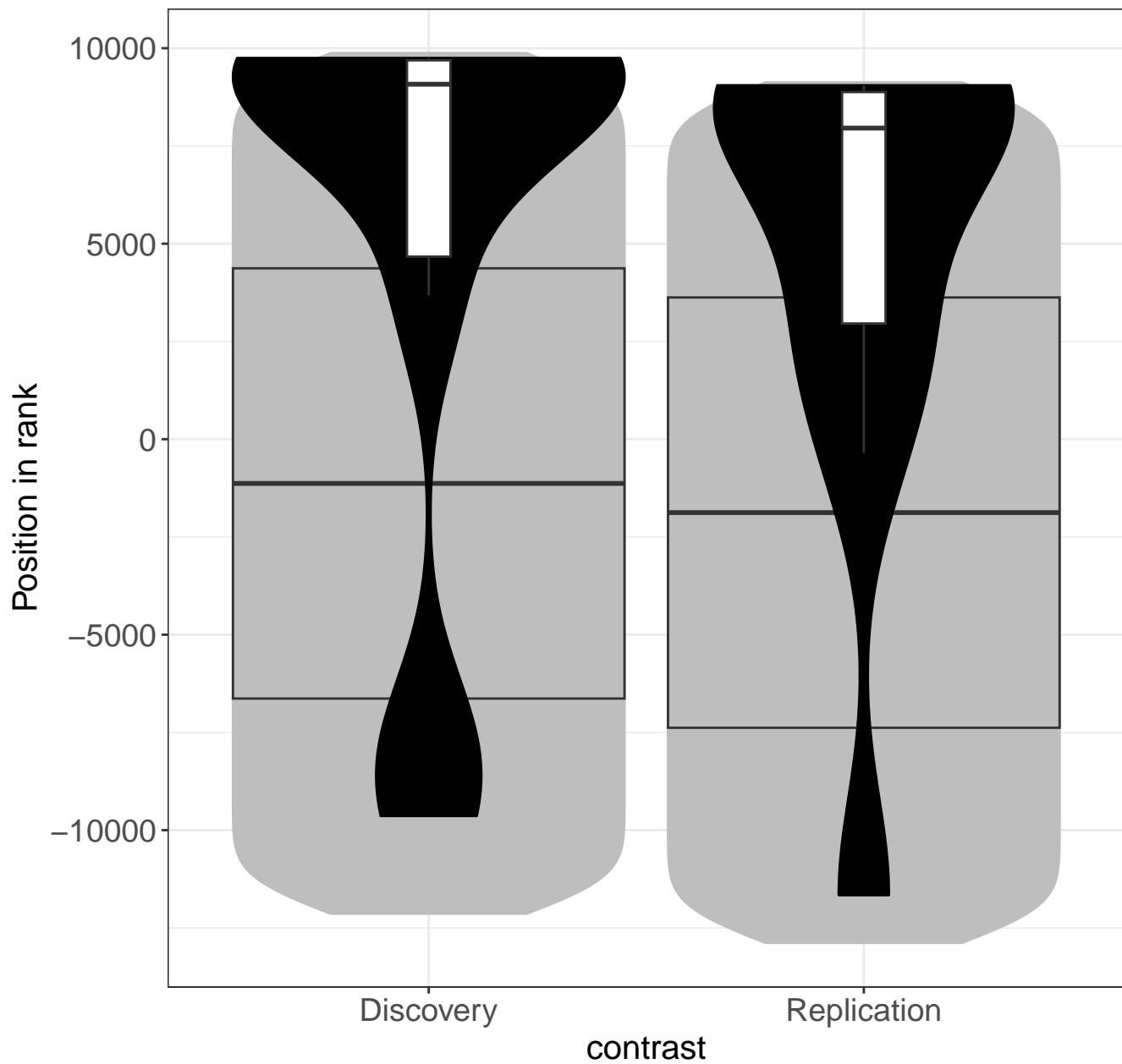
DU5F1_OCT4_SOX2_NANOG_REPRESS_GENES_RELATED_1



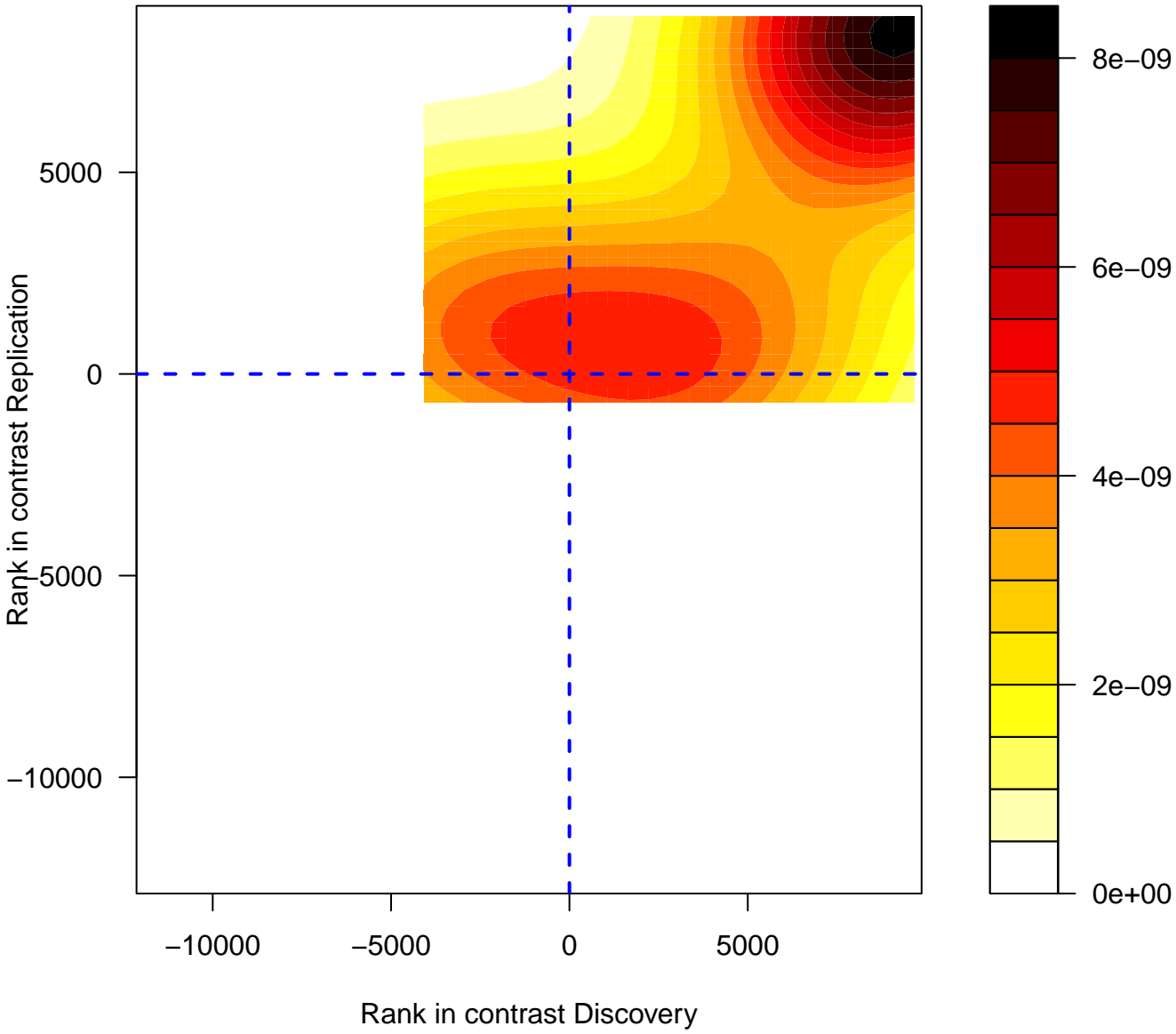
ME_POU5F1_OCT4_SOX2_NANOG_REPRESS_GENES_RELATED_TO_DIFFE



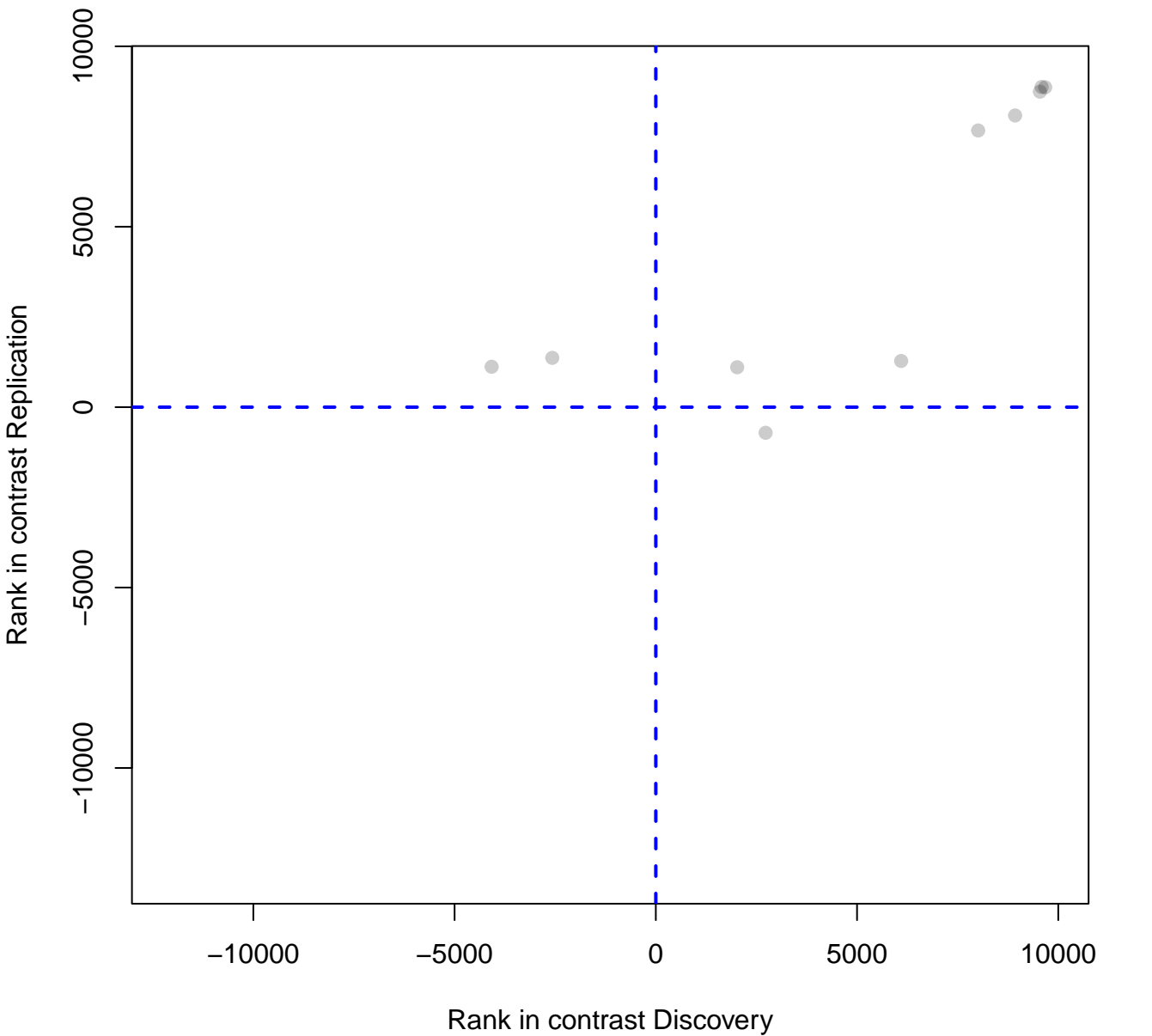
REACTOME_POU5F1_OCT4_SOX2_NANOG_F



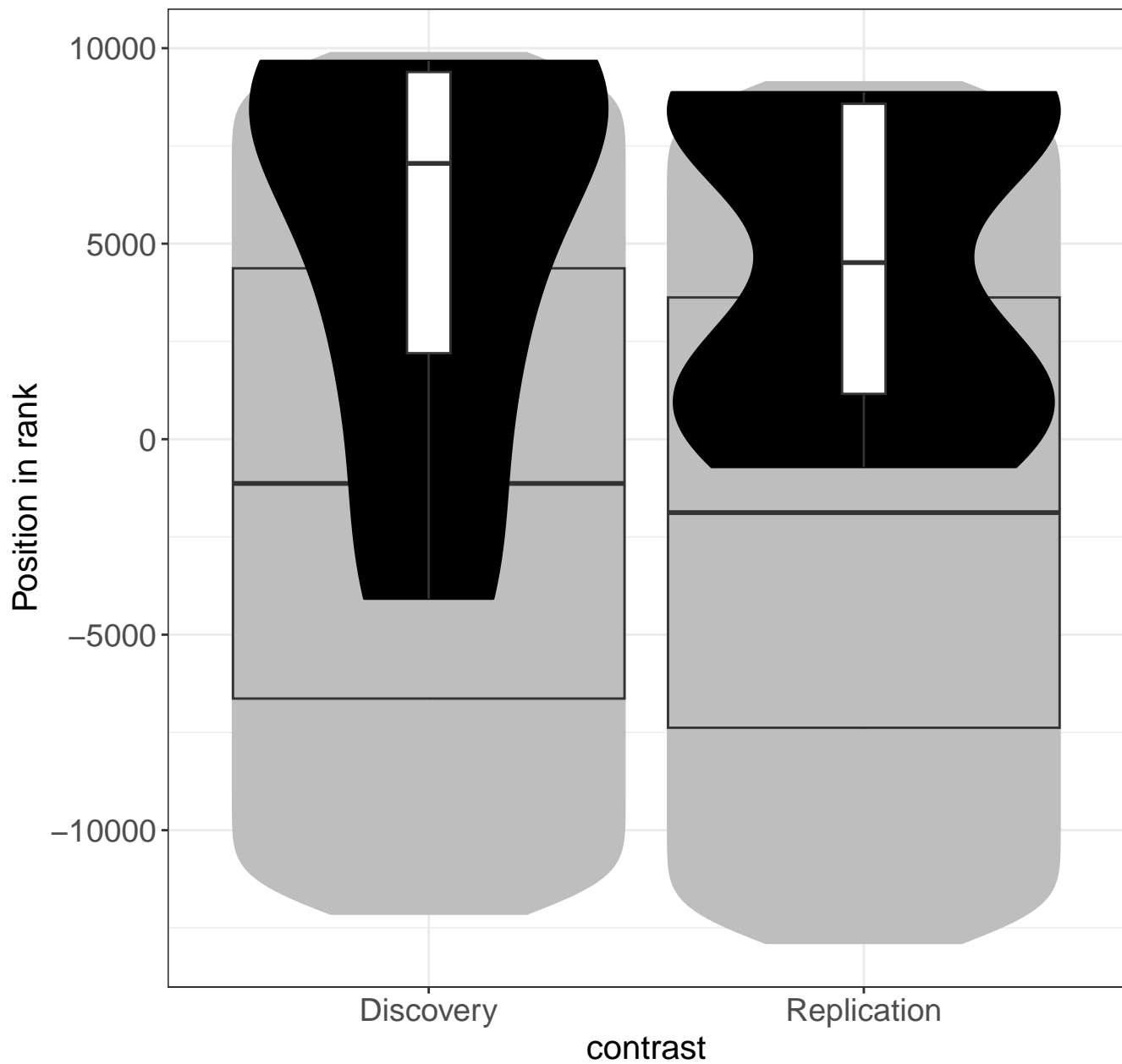
VE_REGULATION_OF_ACTIVITY_OF_TFAP2_AP_2_FAMILY_1



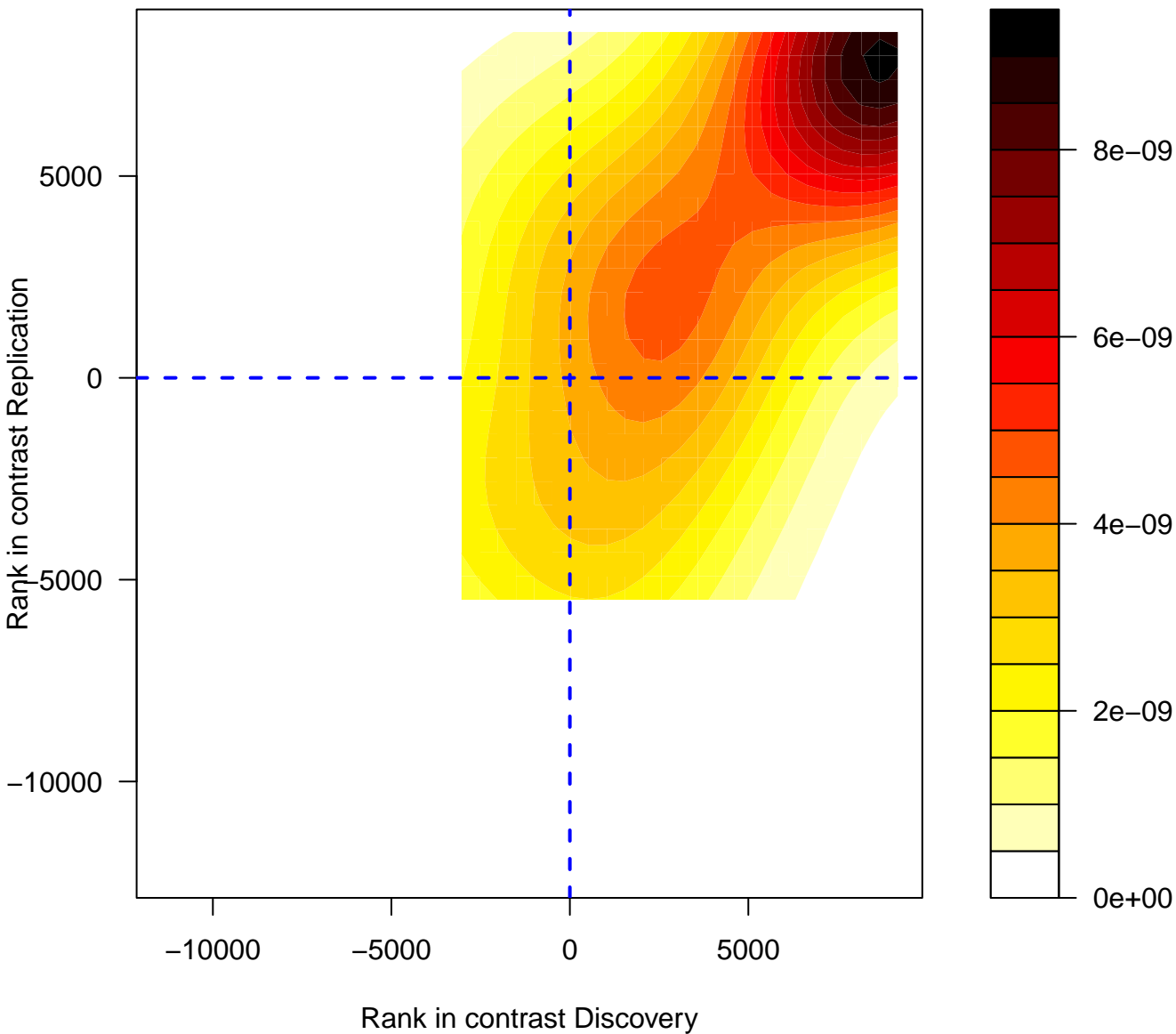
NEGATIVE_REGULATION_OF_ACTIVITY_OF_TFAP2_AP_2_FAMILY_TRANSCRIPTION_FACTORS



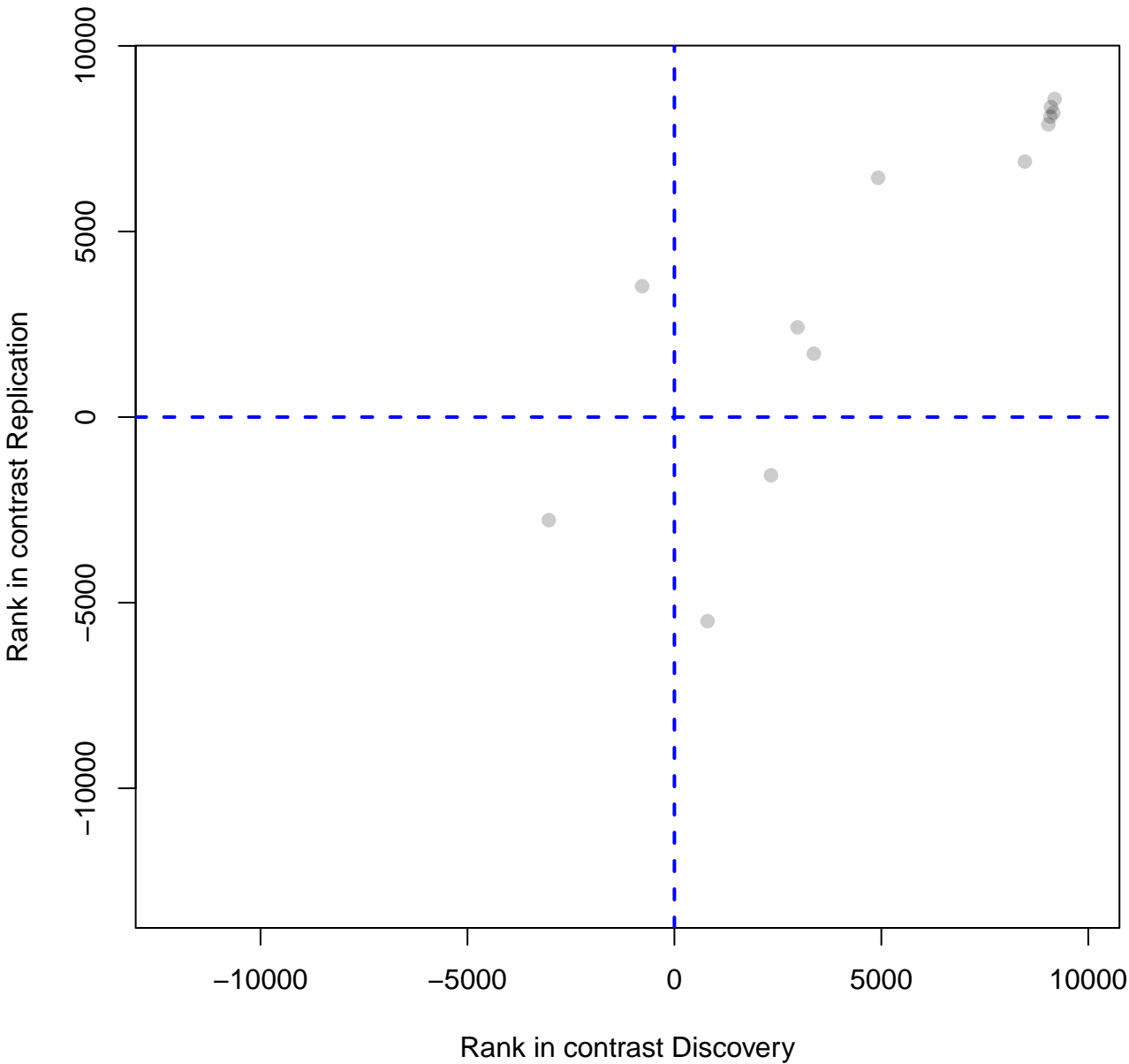
REACTOME_NEGATIVE_REGULATION_OF_AC



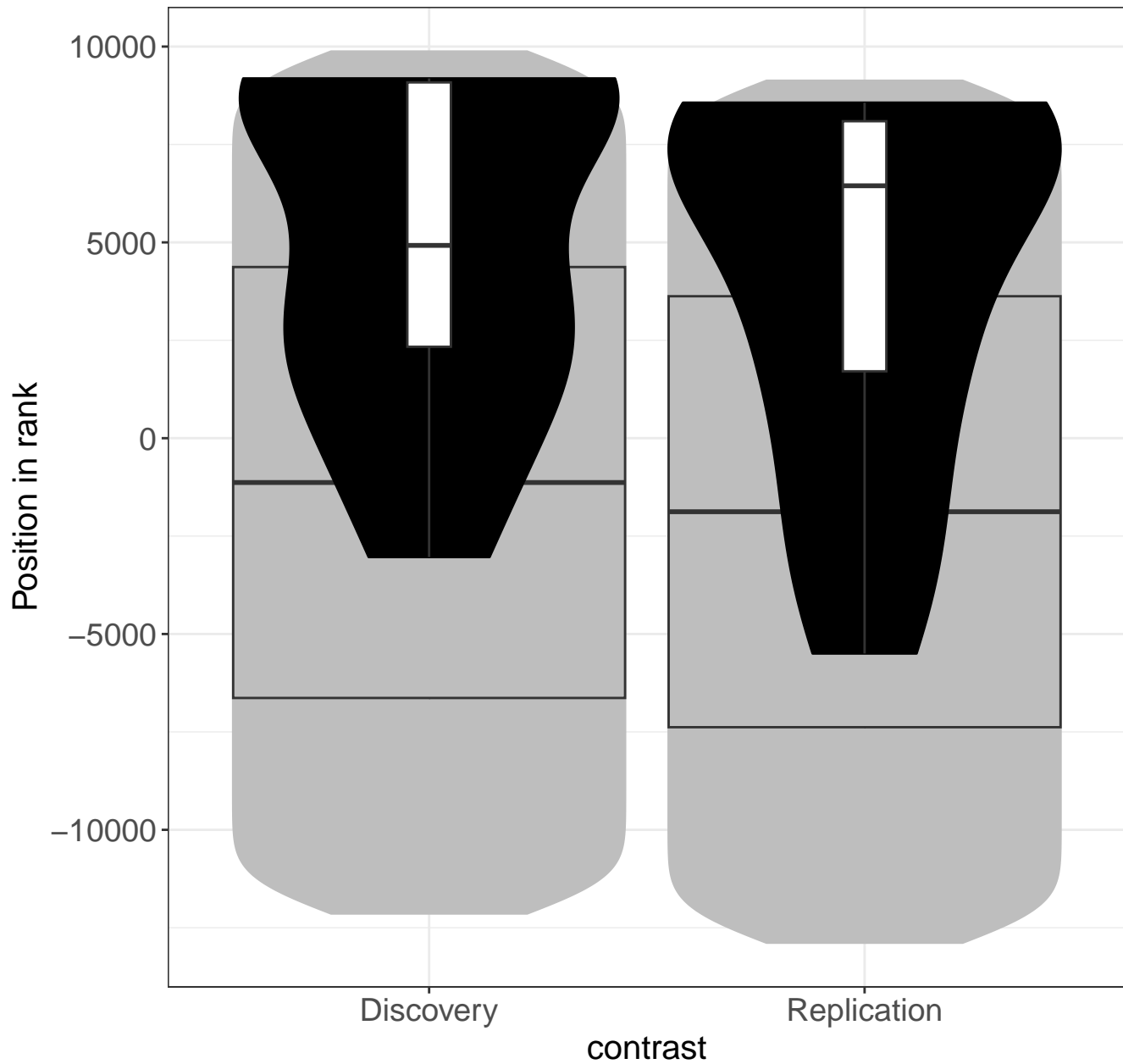
REACTOME_FGFR1_MODULATION_OF_FGFR1_SIGNAL



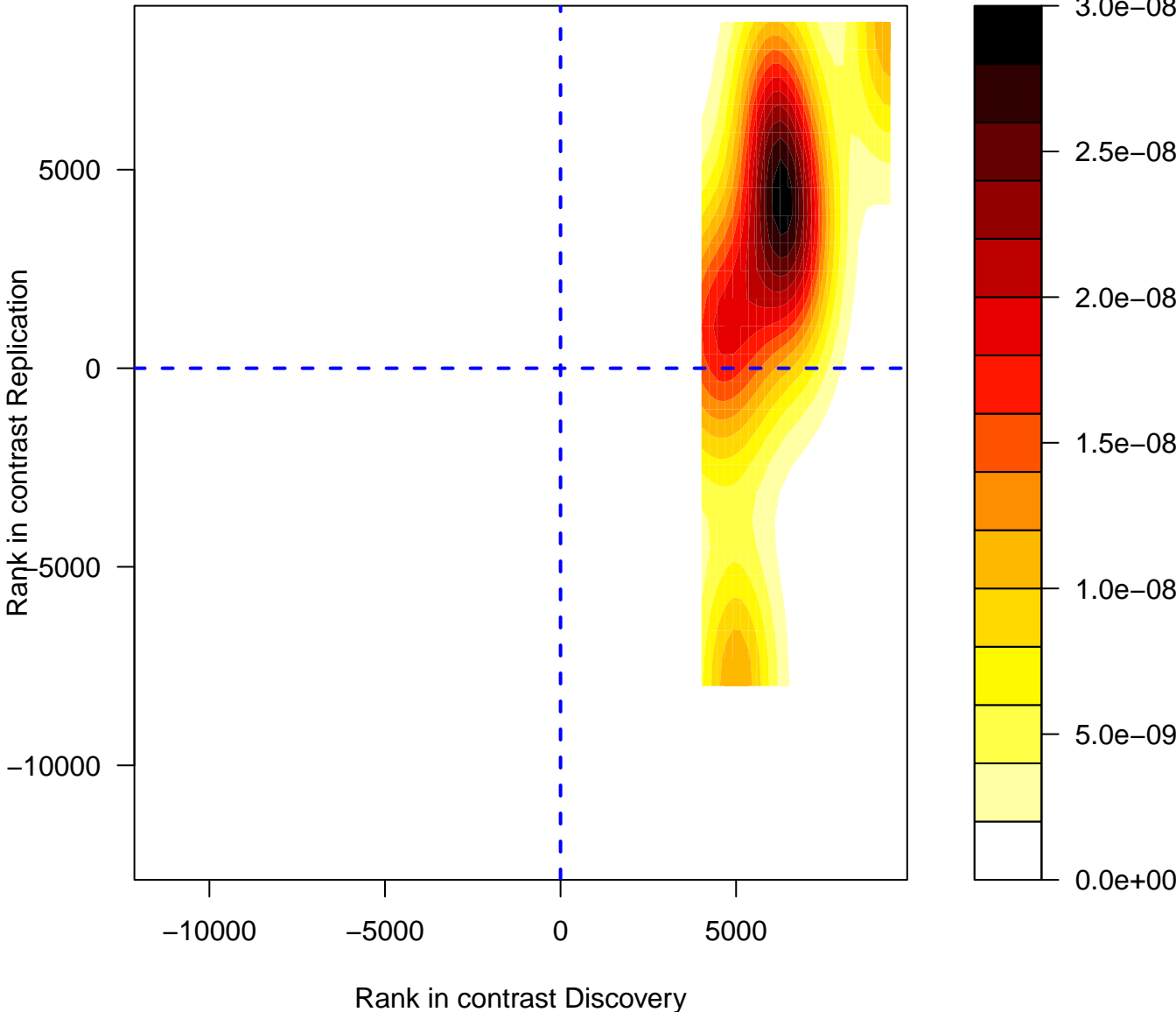
REACTOME_FGFRL1_MODULATION_OF_FGFR1_SIGNALING



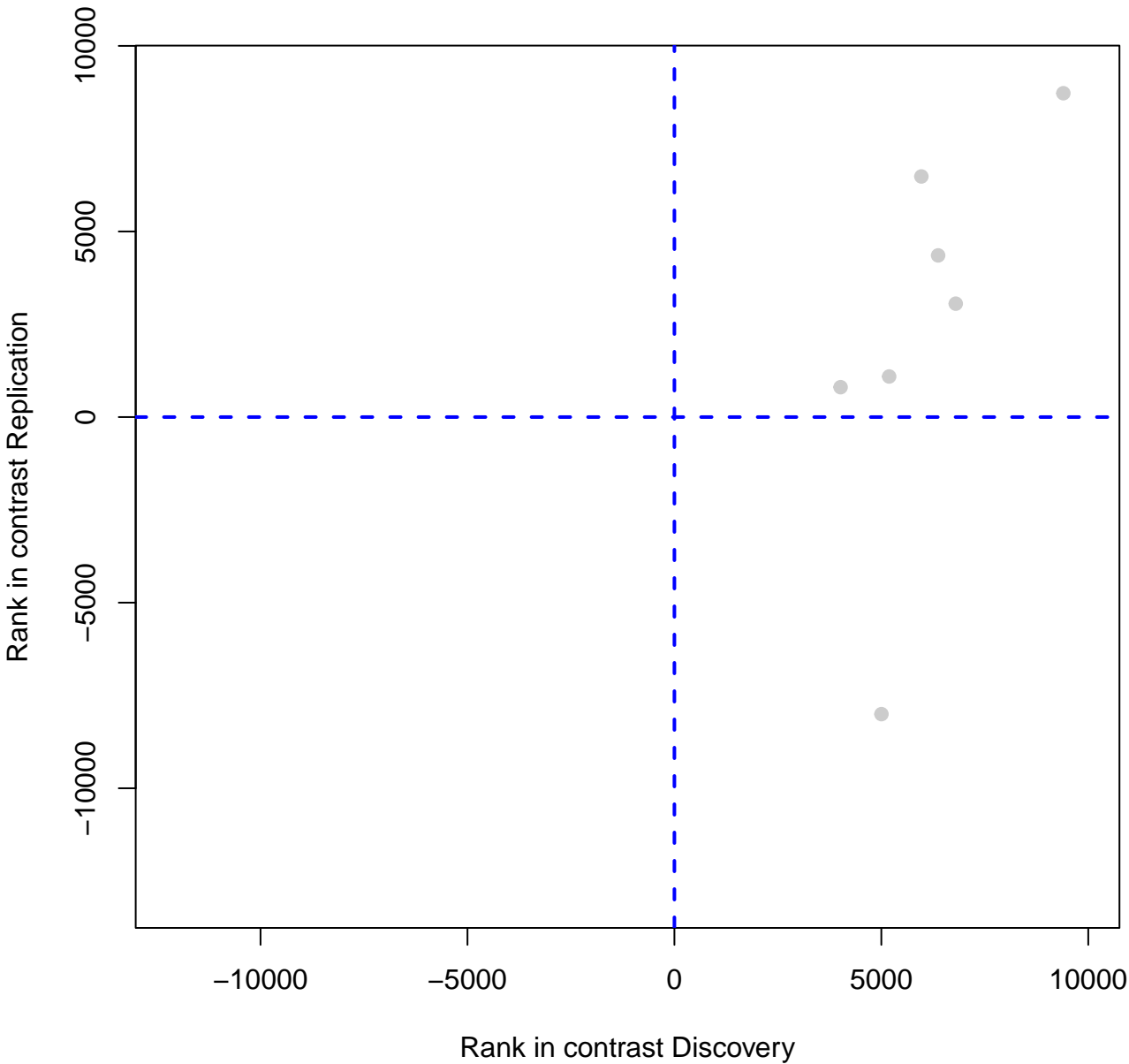
REACTOME_FGFRL1_MODULATION_OF_FGF



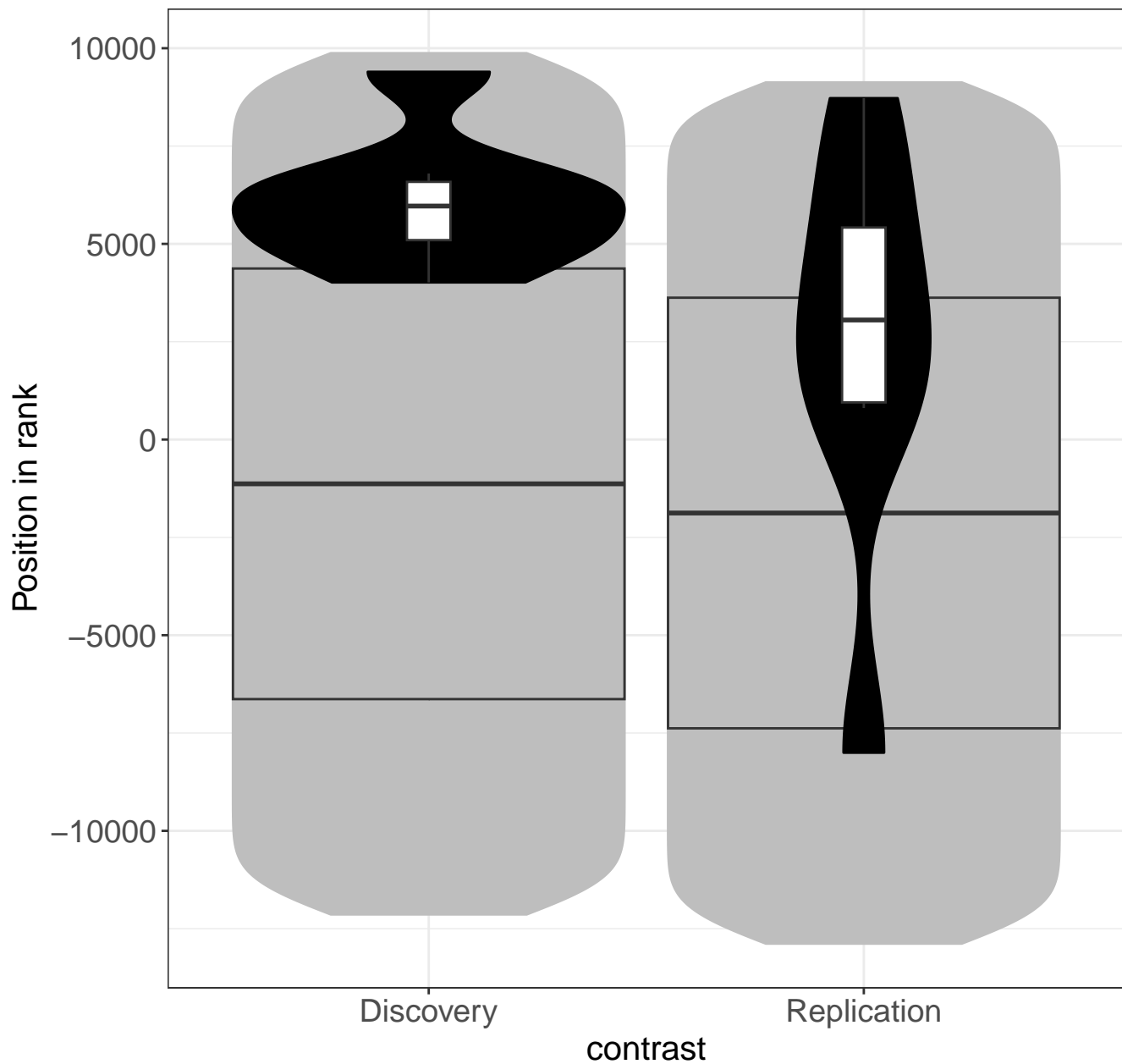
REACTOME_LINOLEIC_ACID_LA_METABOLISM



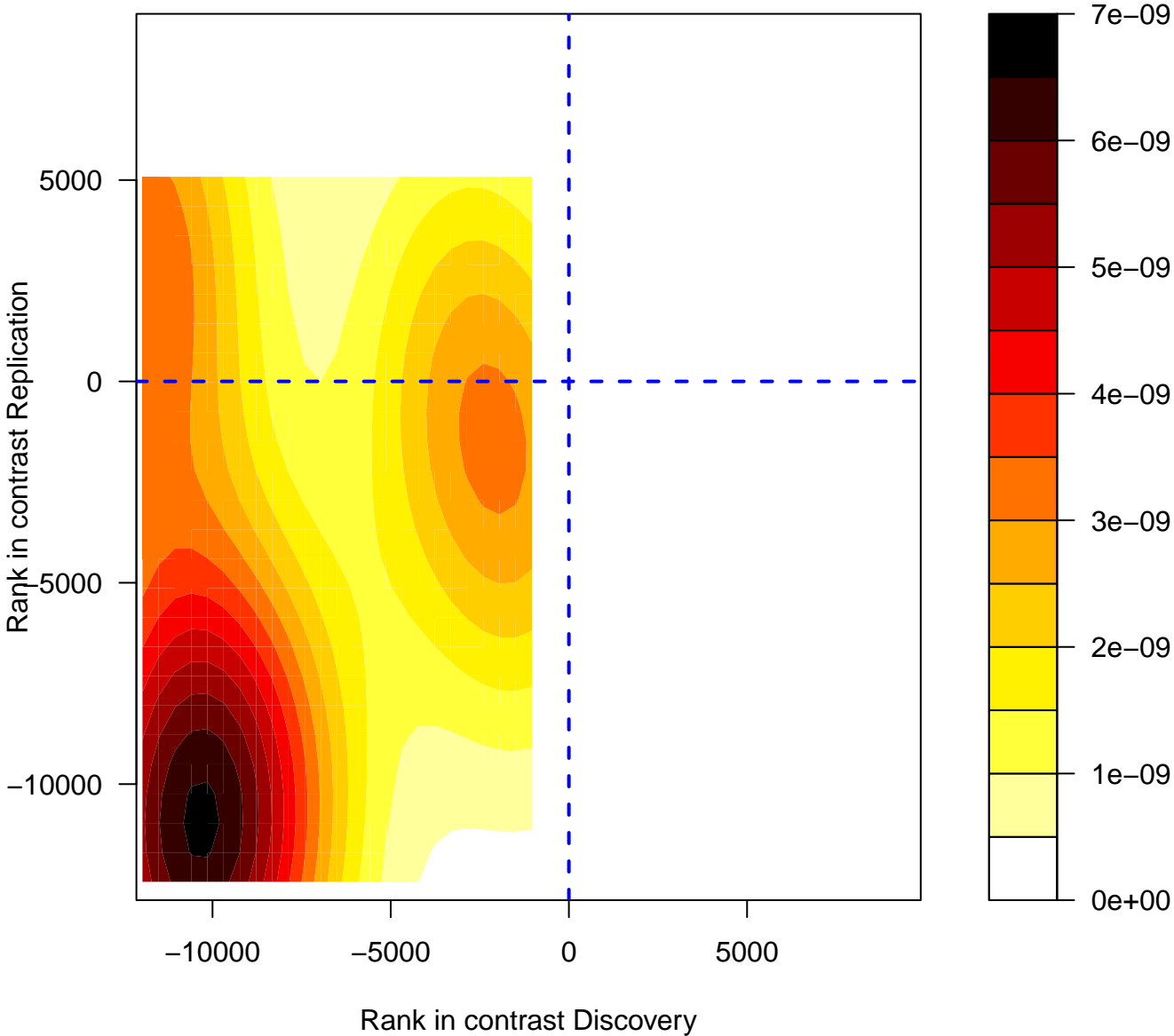
REACTOME_LINOLEIC_ACID_LA_METABOLISM



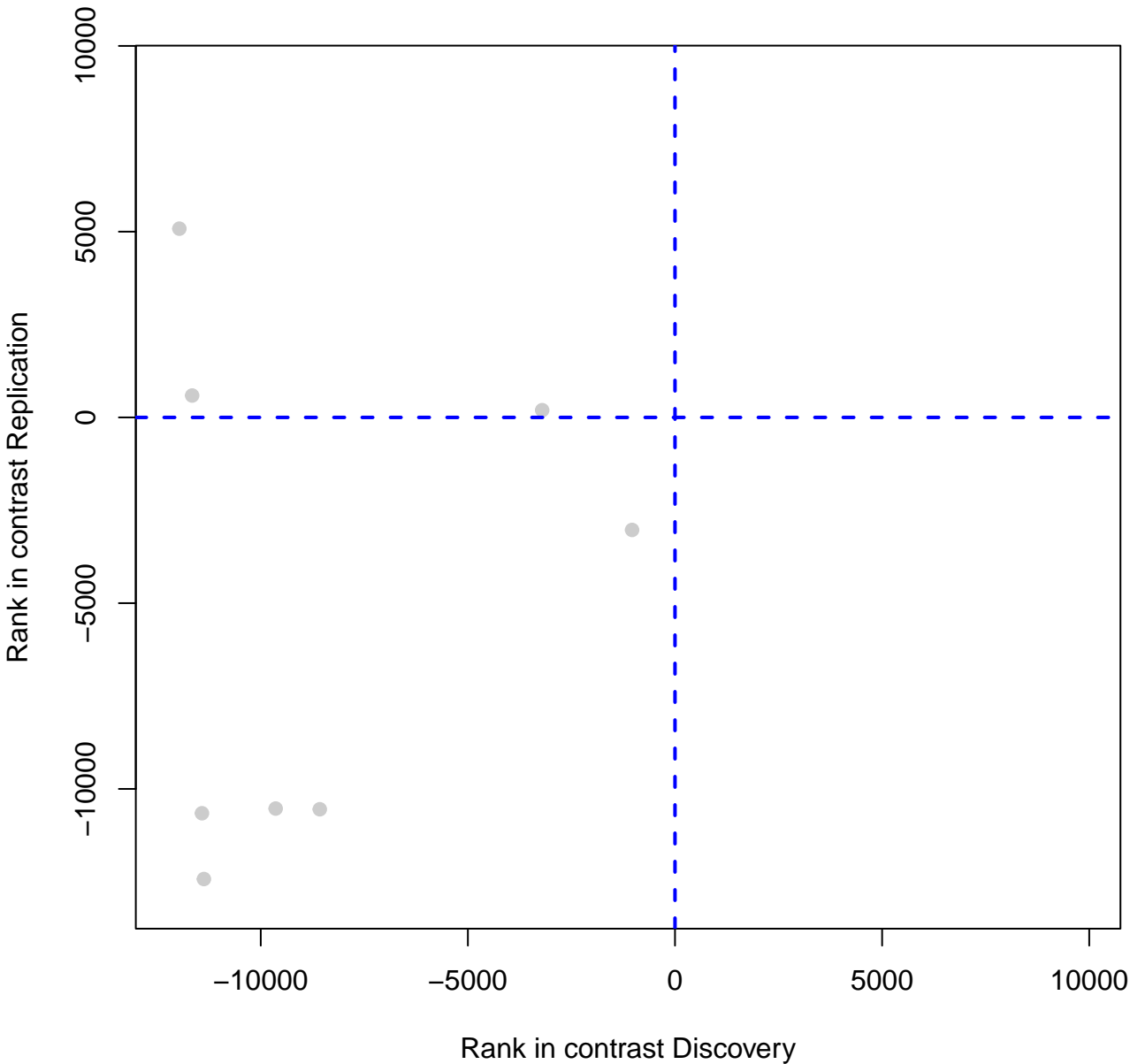
REACTOME_LINOLEIC_ACID_LA_METABOLIS



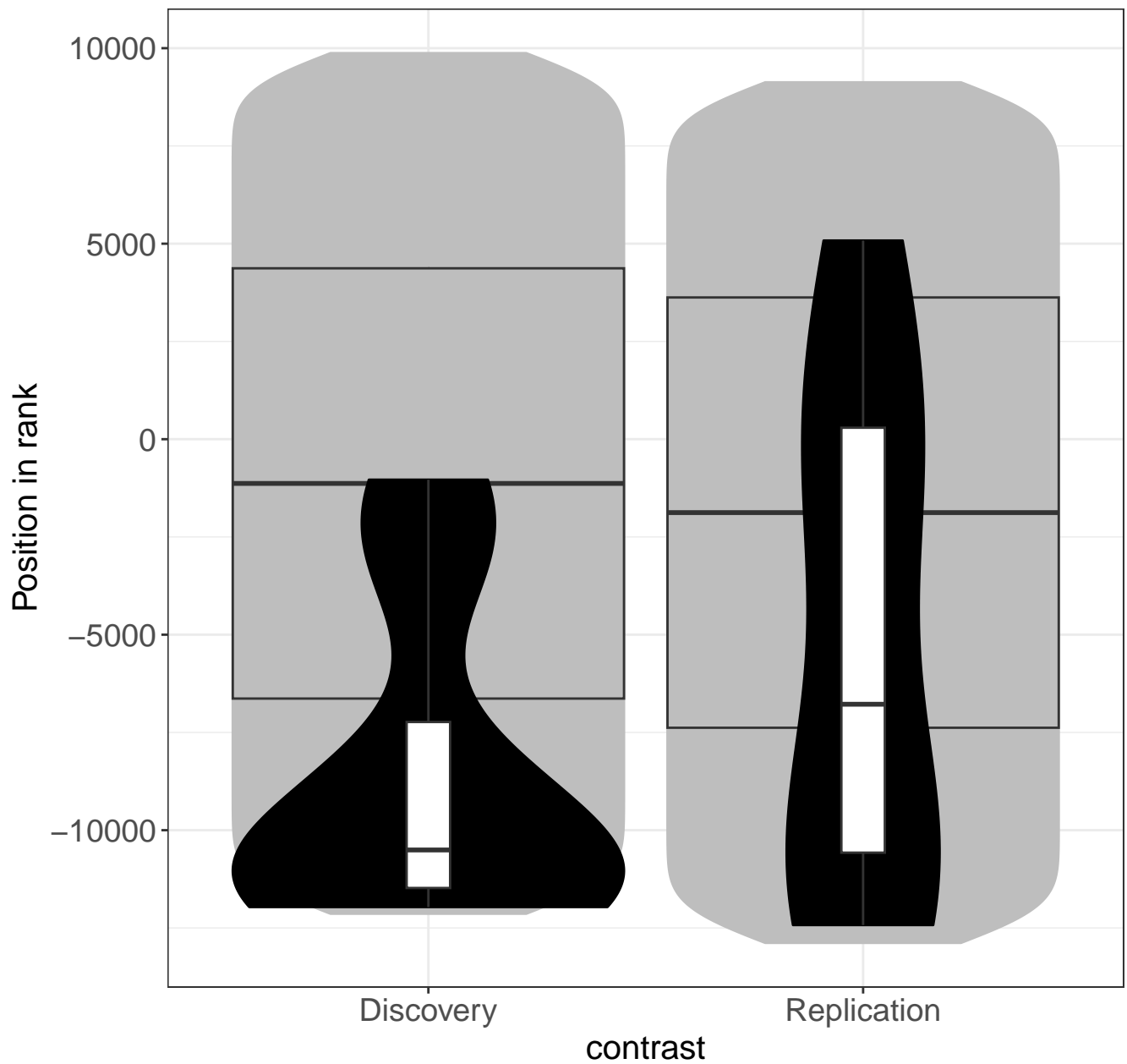
REACTOME_DEFECTIVE_CHST6_CAUSES_MCDC1



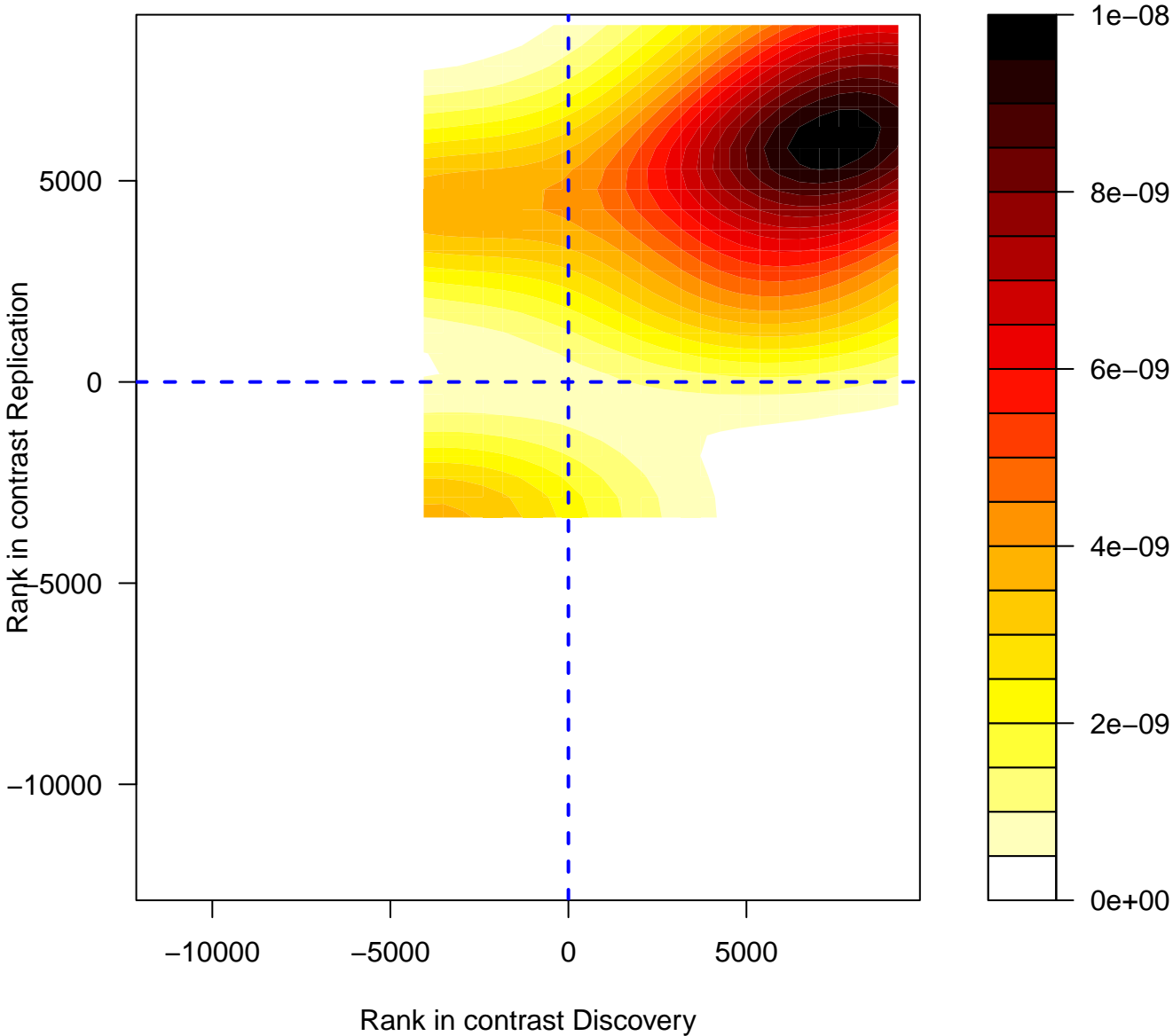
REACTOME_DEFECTIVE_CHST6_CAUSES_MCDC1



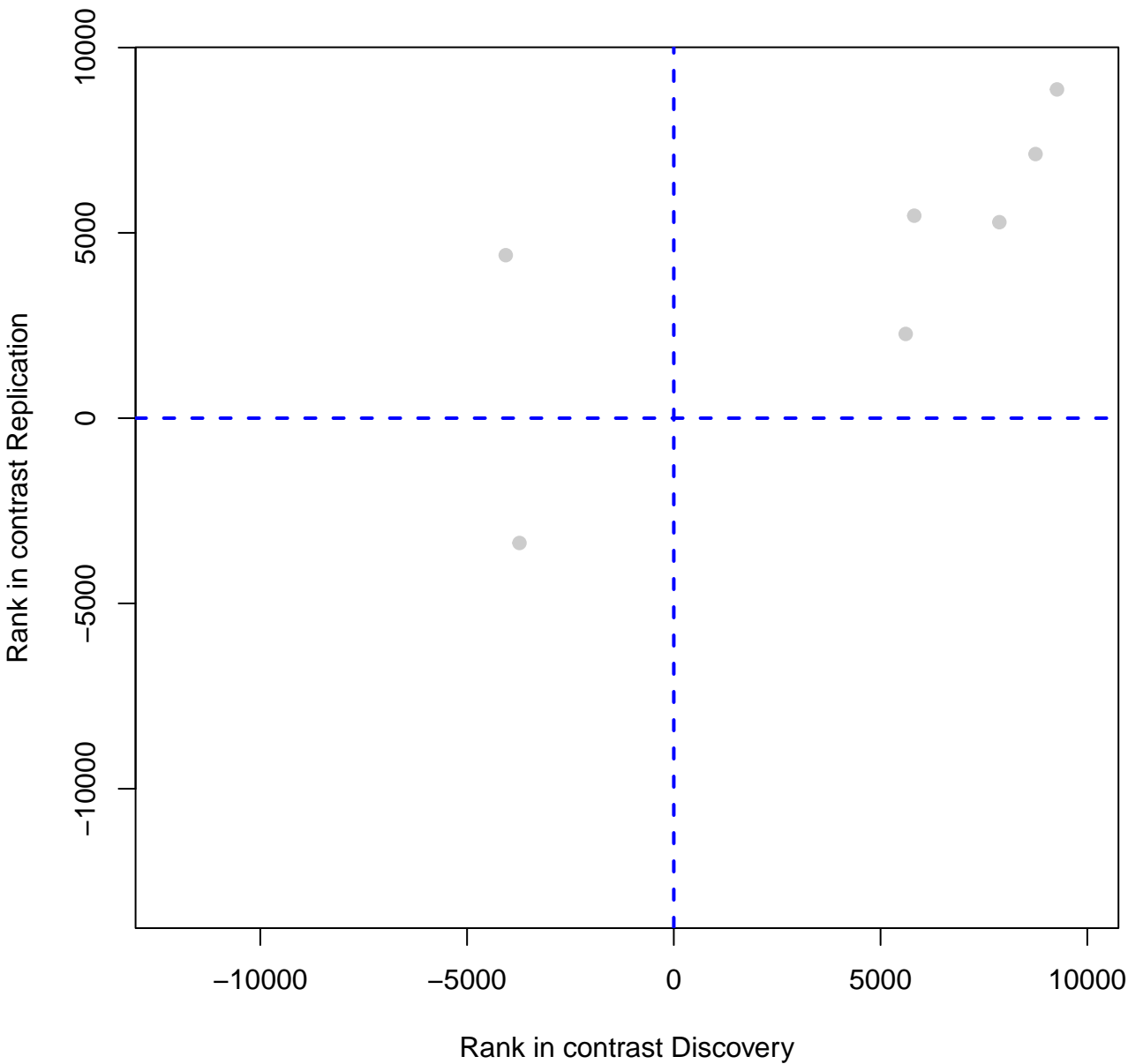
REACTOME_DEFECTIVE_CHST6_CAUSES_M



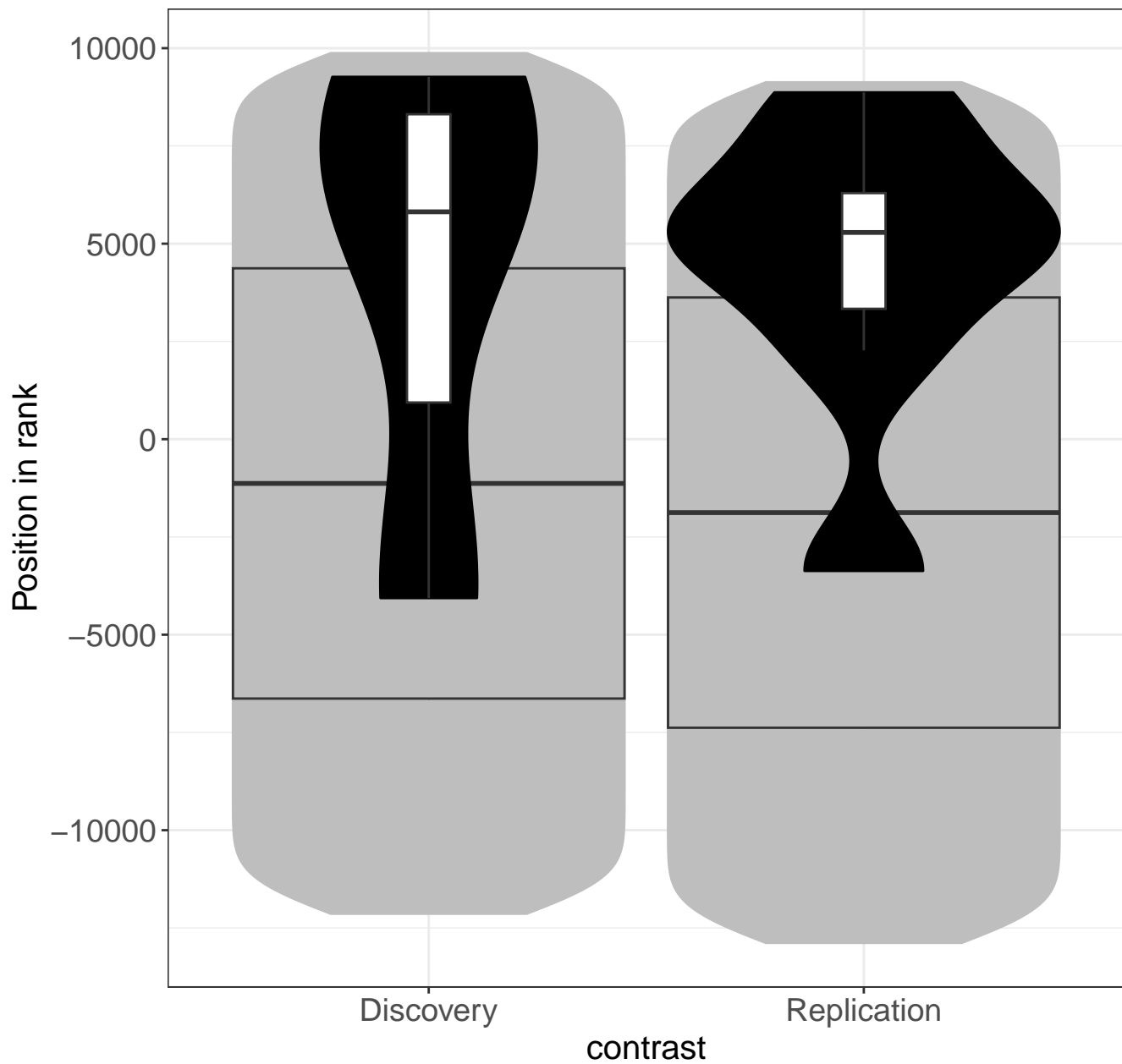
OME_ERYTHROPOIETIN_ACTIVATES_PHOSPHOLIPASE_C_G



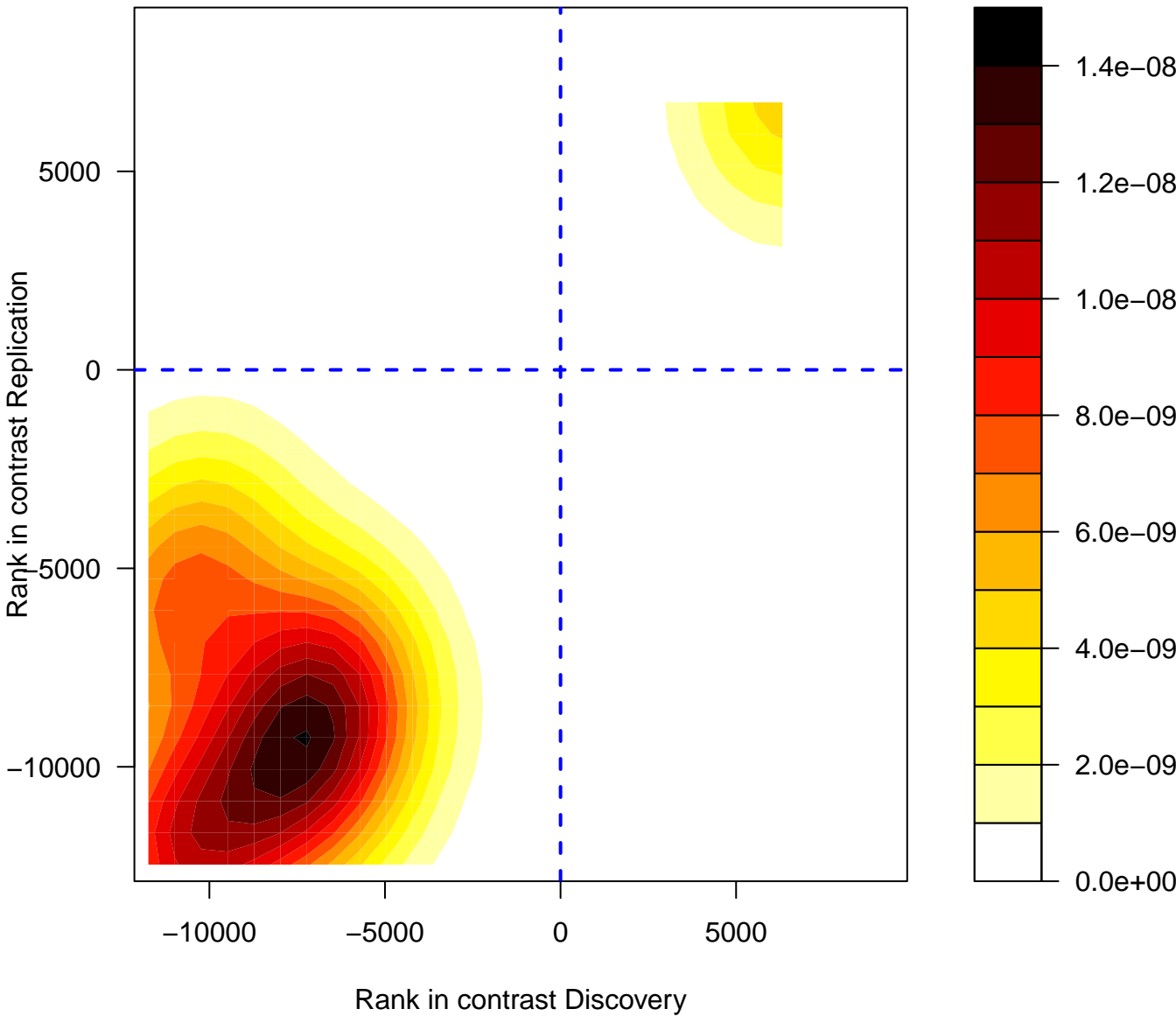
REACTOME_ERYTHROPOIETIN_ACTIVATES_PHOSPHOLIPASE_C_GAMMA_I



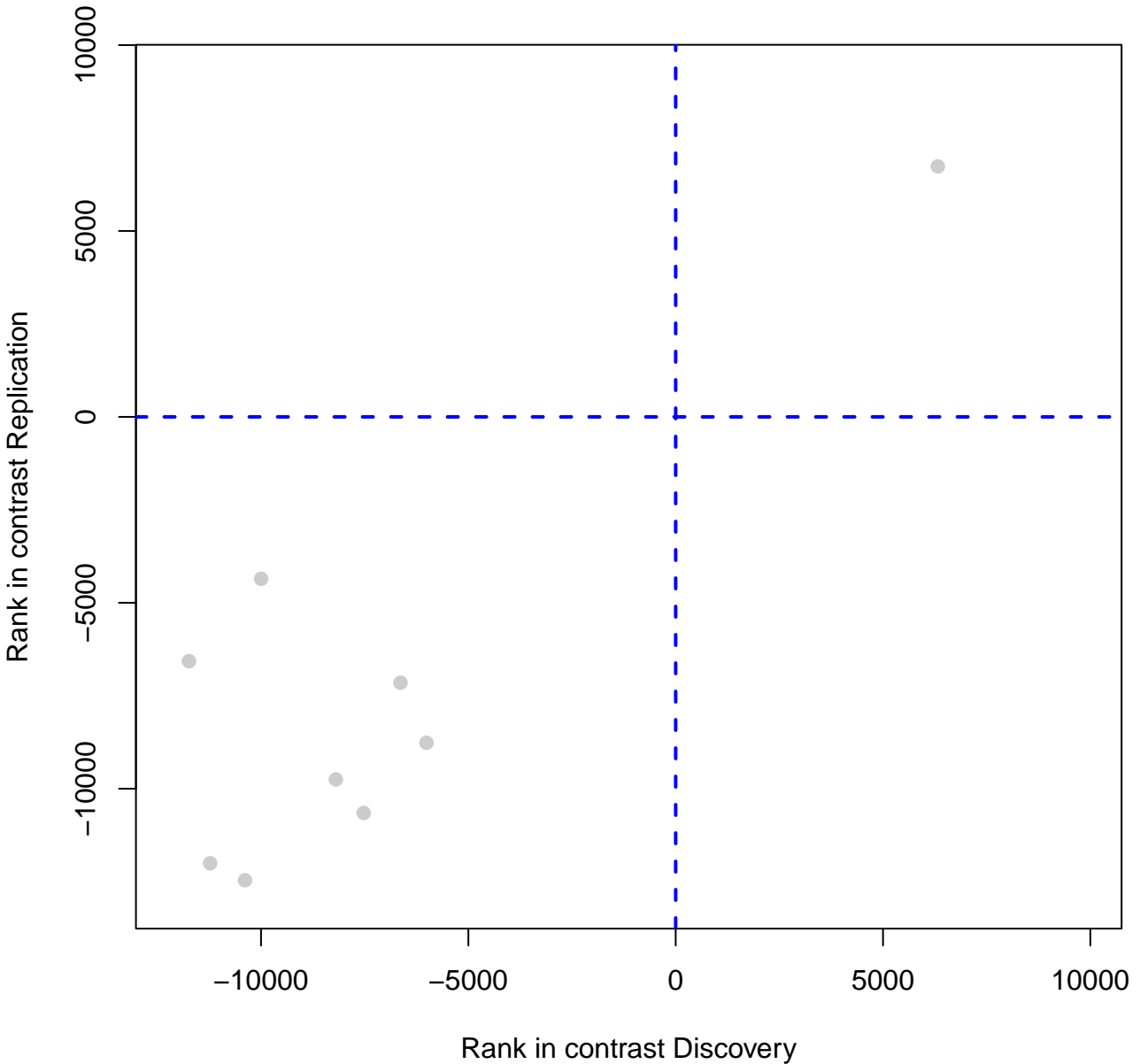
REACTOME_ERYTHROPOIETIN_ACTIVATES_



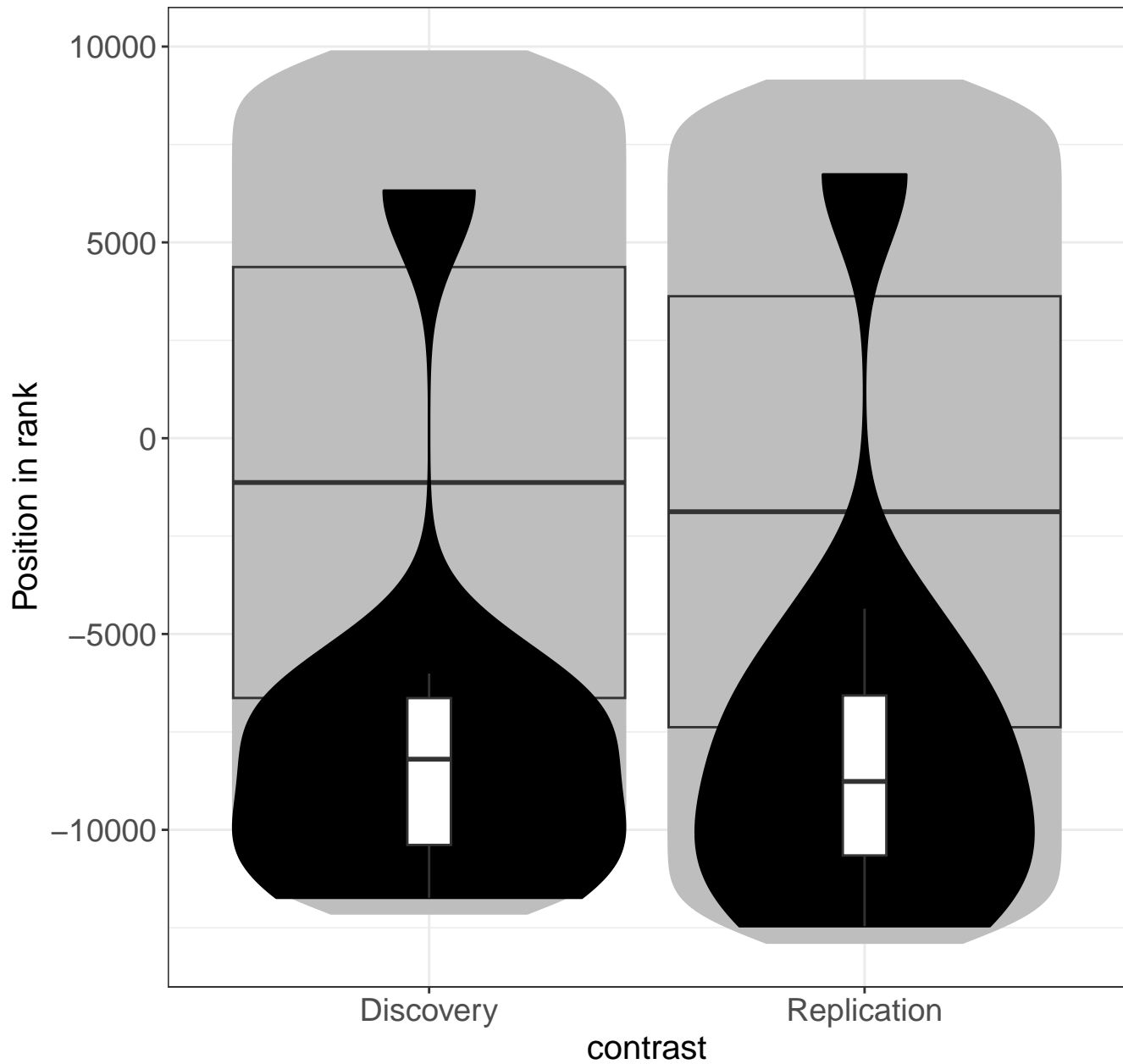
REACTOME_AMINO_ACID_CONJUGATION



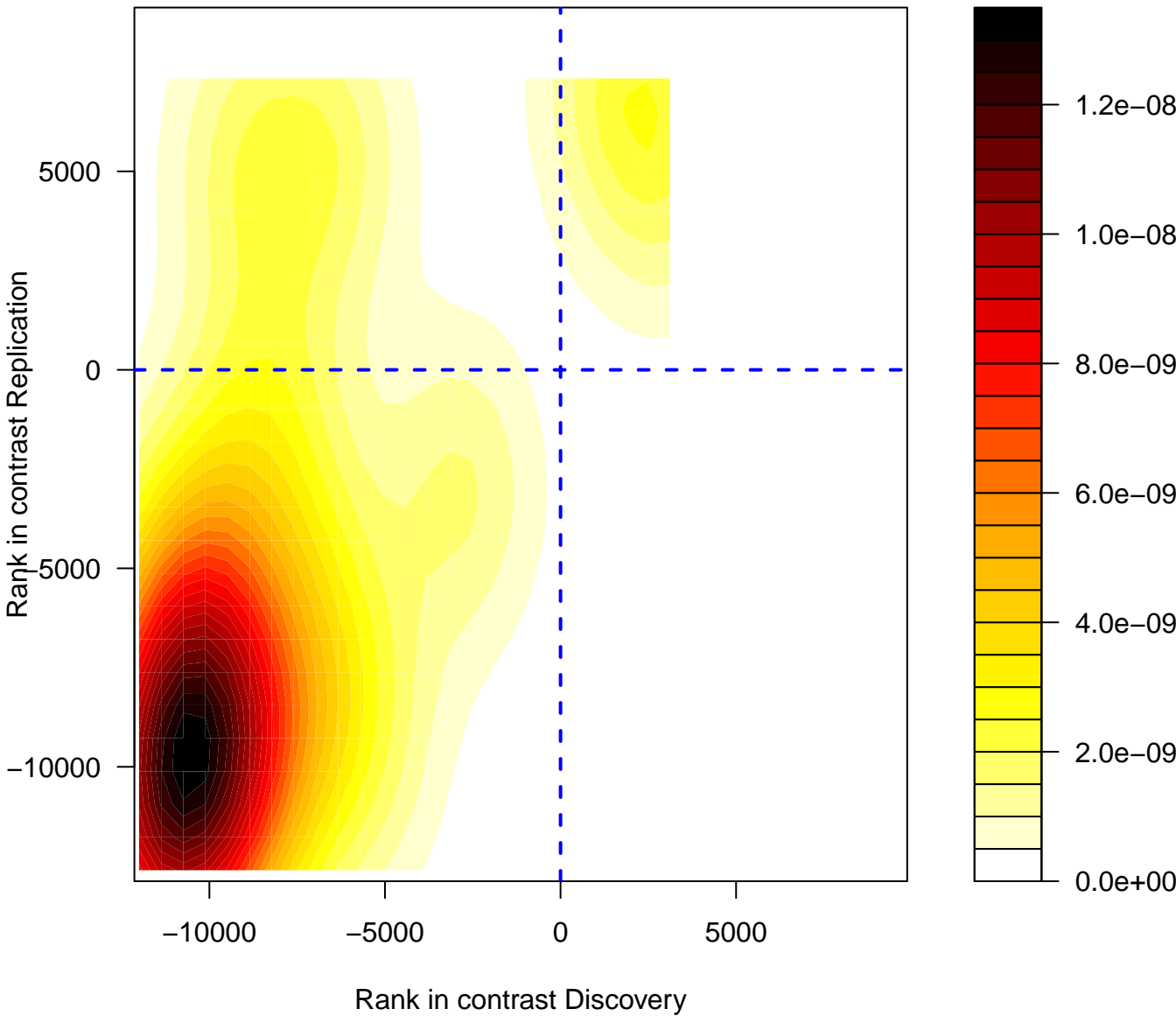
REACTOME_AMINO_ACID_CONJUGATION



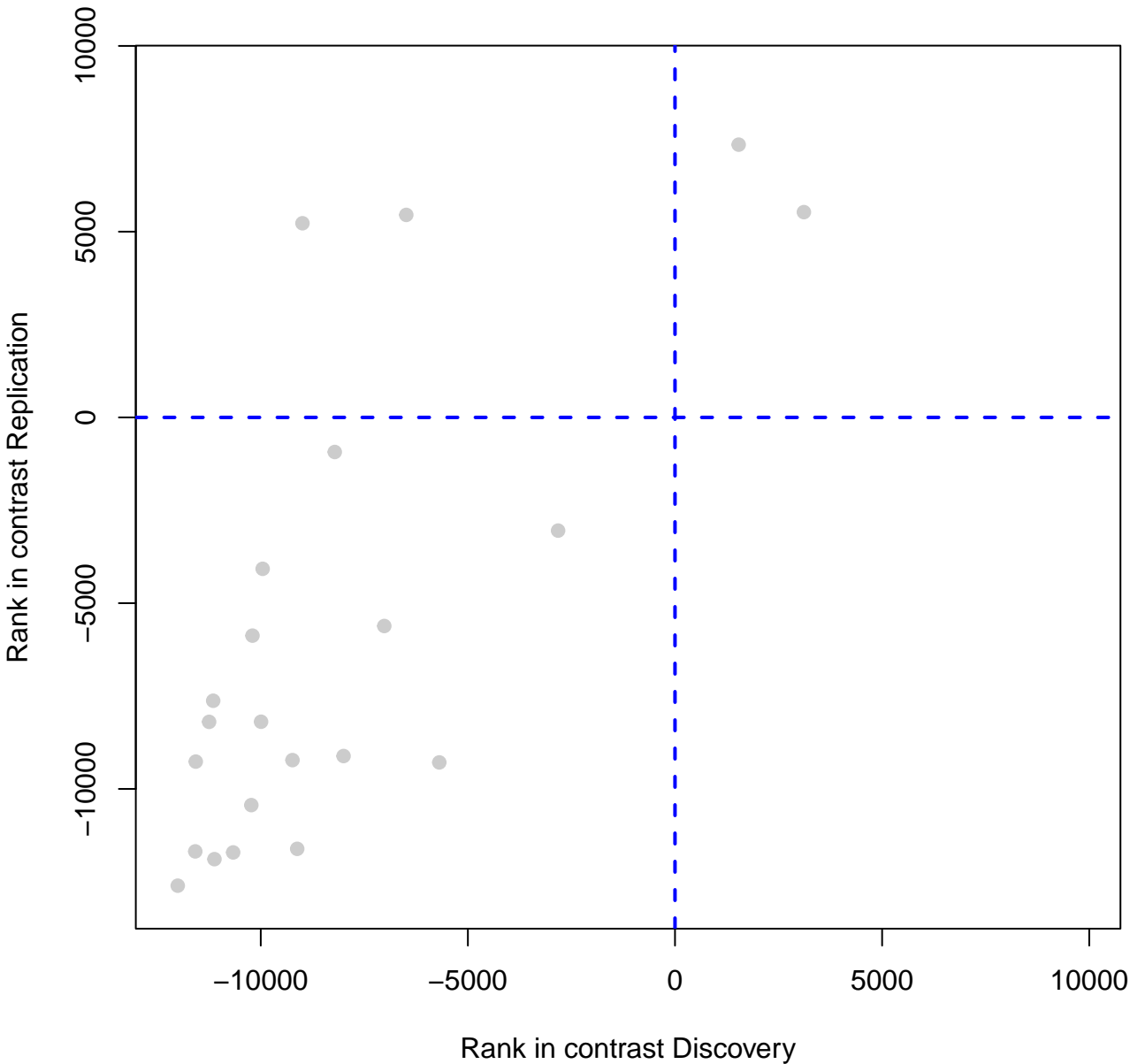
REACTOME_AMINO_ACID_CONJUGATION



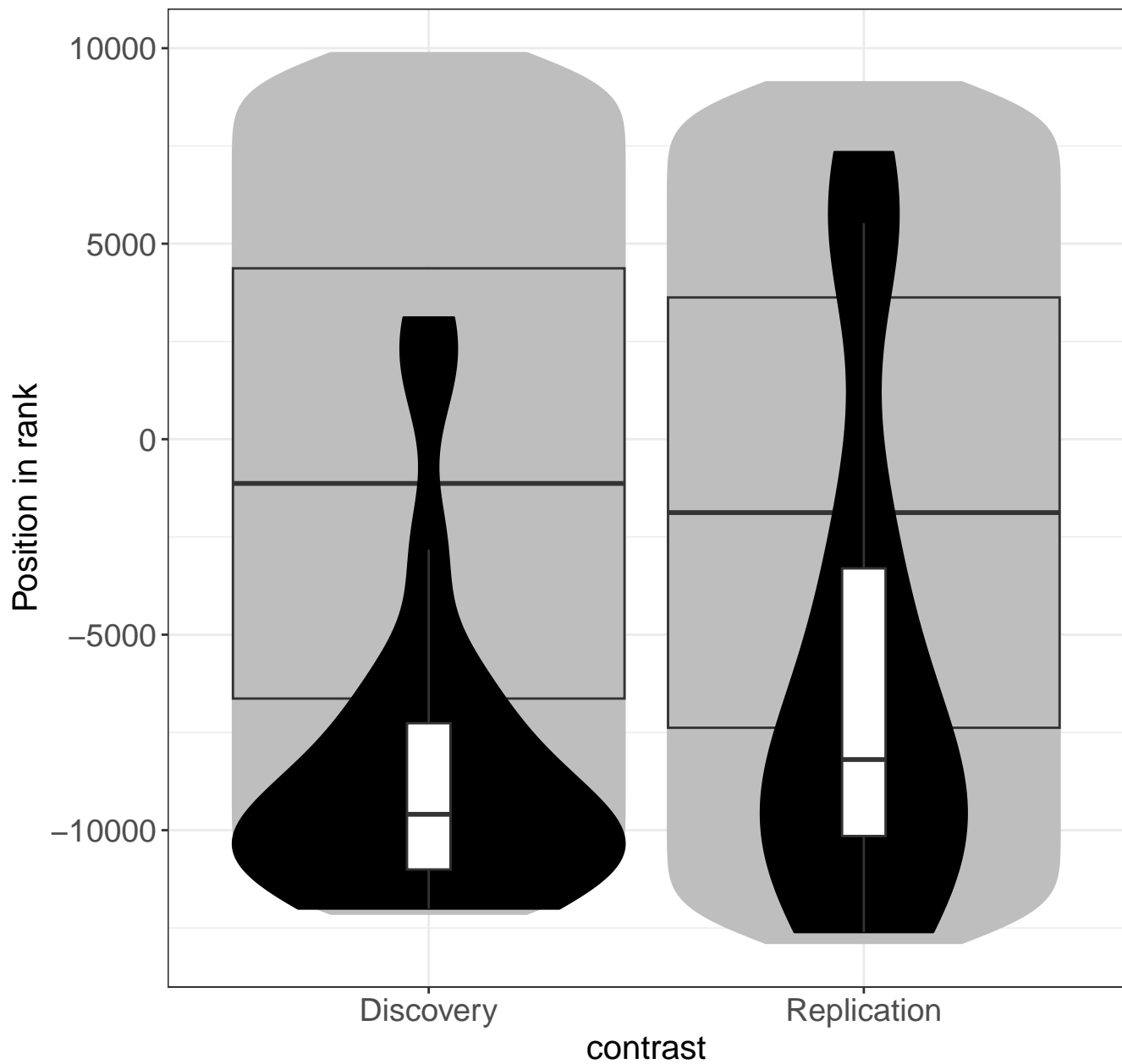
REACTOME_DIGESTION_AND_ABSORPTION



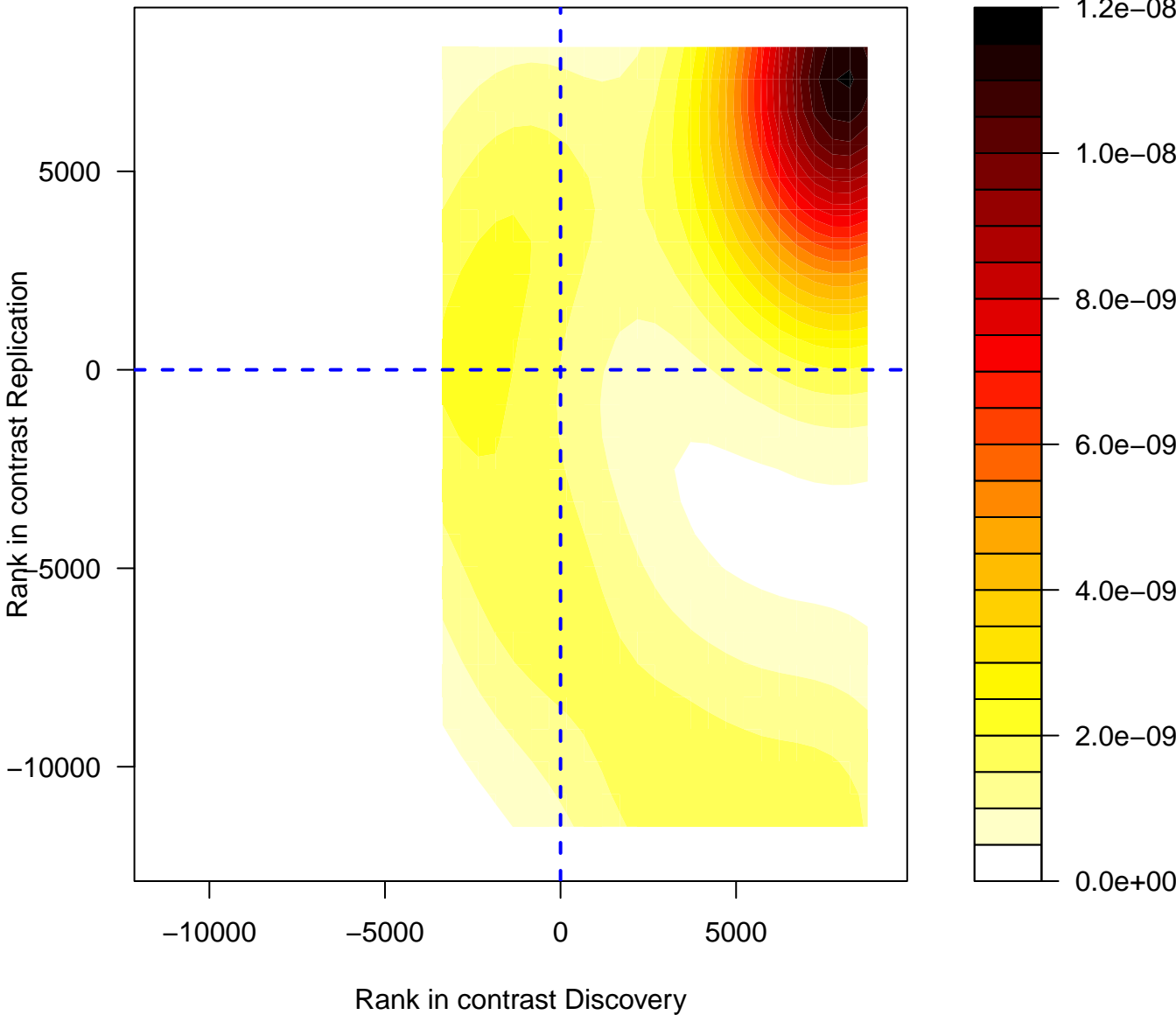
REACTOME_DIGESTION_AND_ABSORPTION



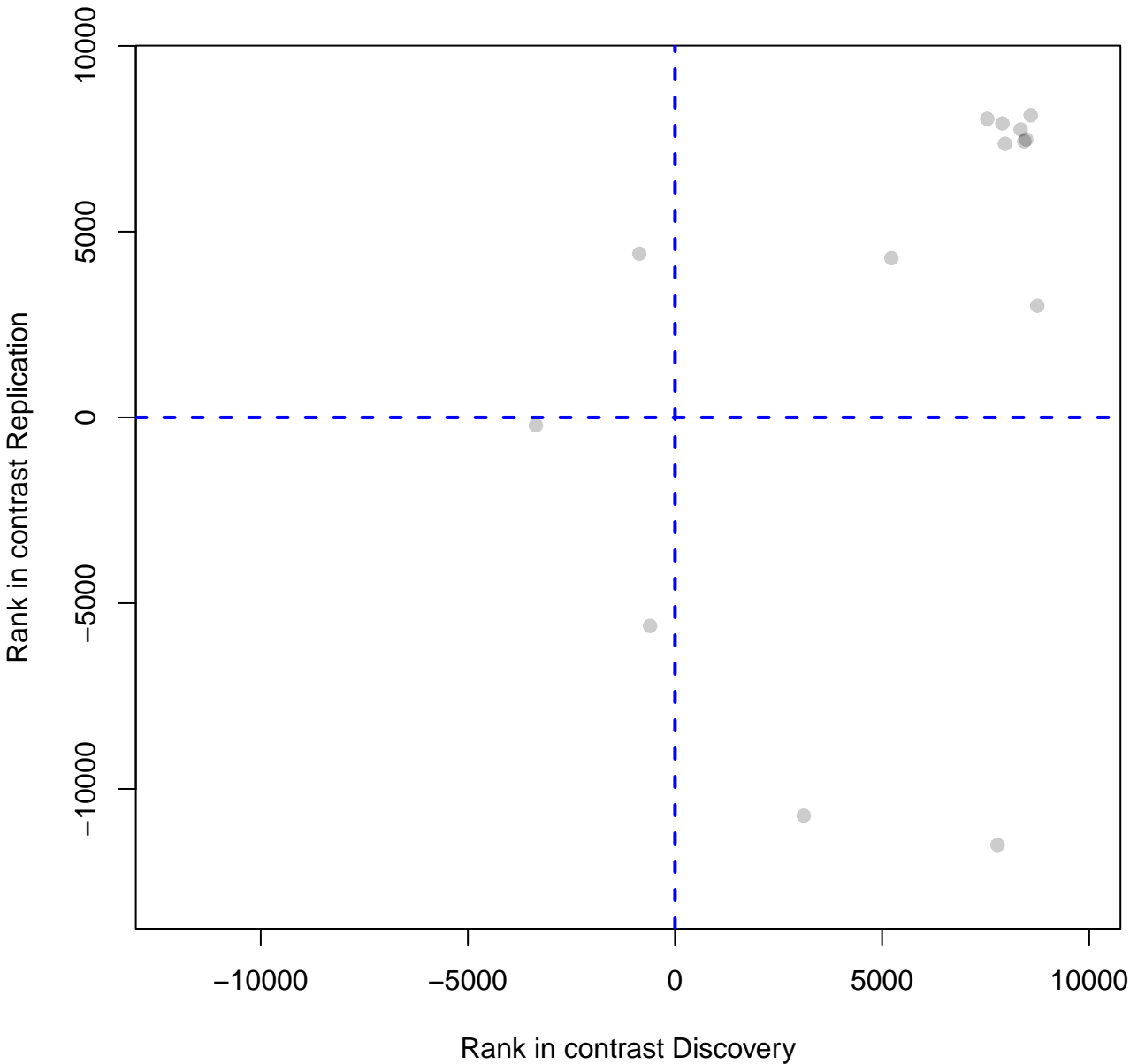
REACTOME_DIGESTION_AND_ABSORPTION



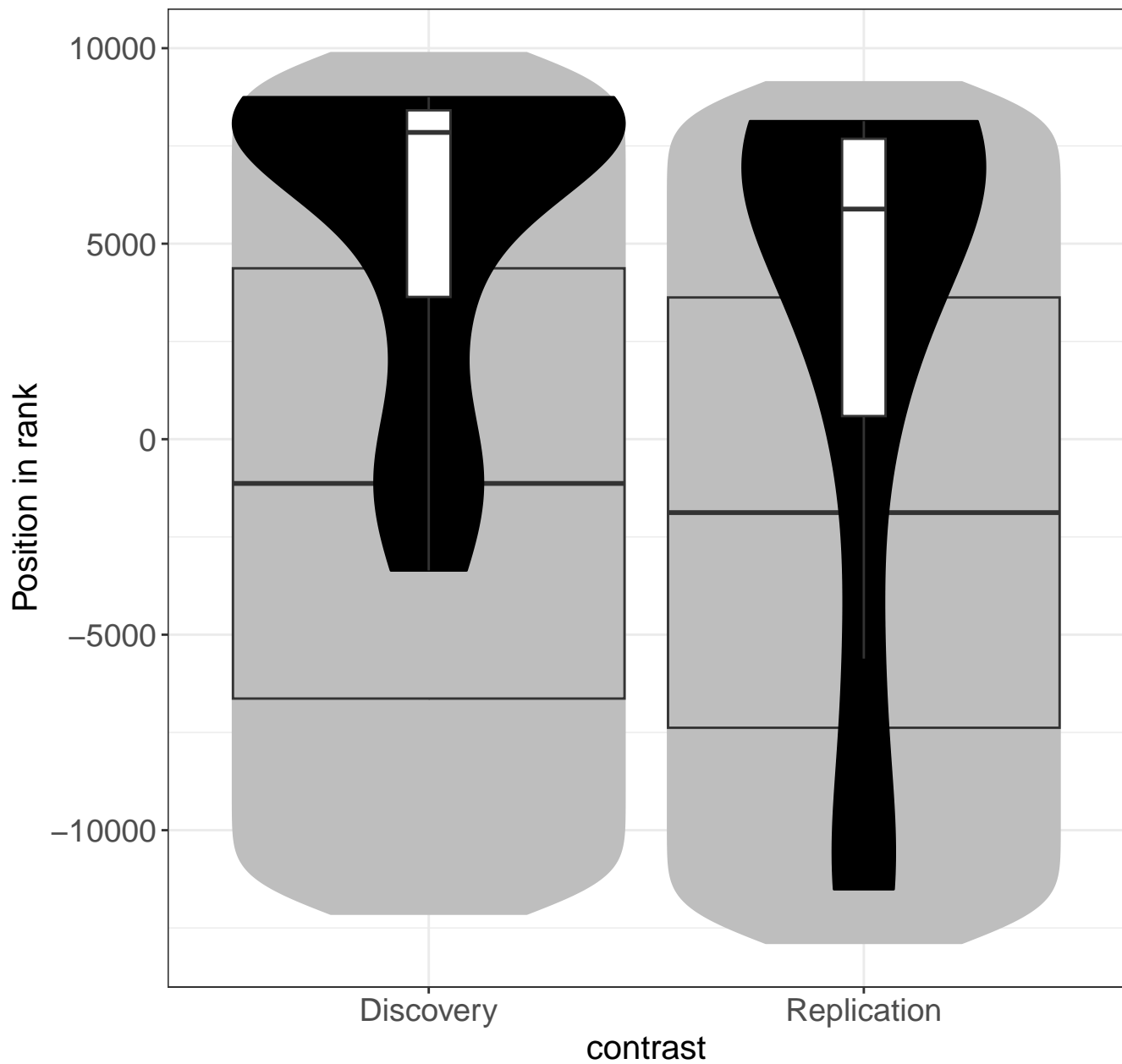
REACTOME_LYSOSPHINGOLIPID_AND_LPA_RECEPTOF



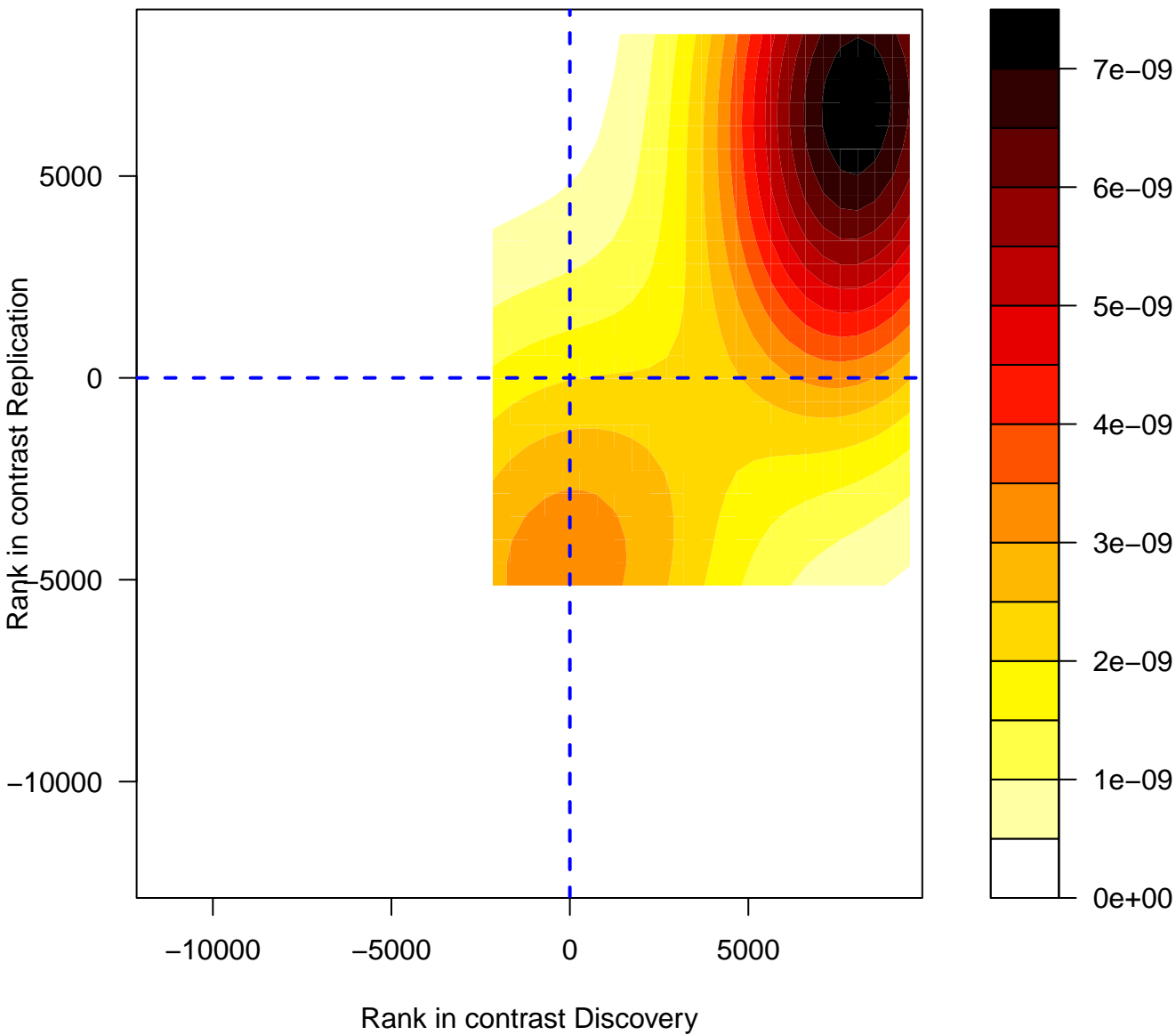
REACTOME_LYSOSPHINGOLIPID_AND_LPA_RECEPTORS



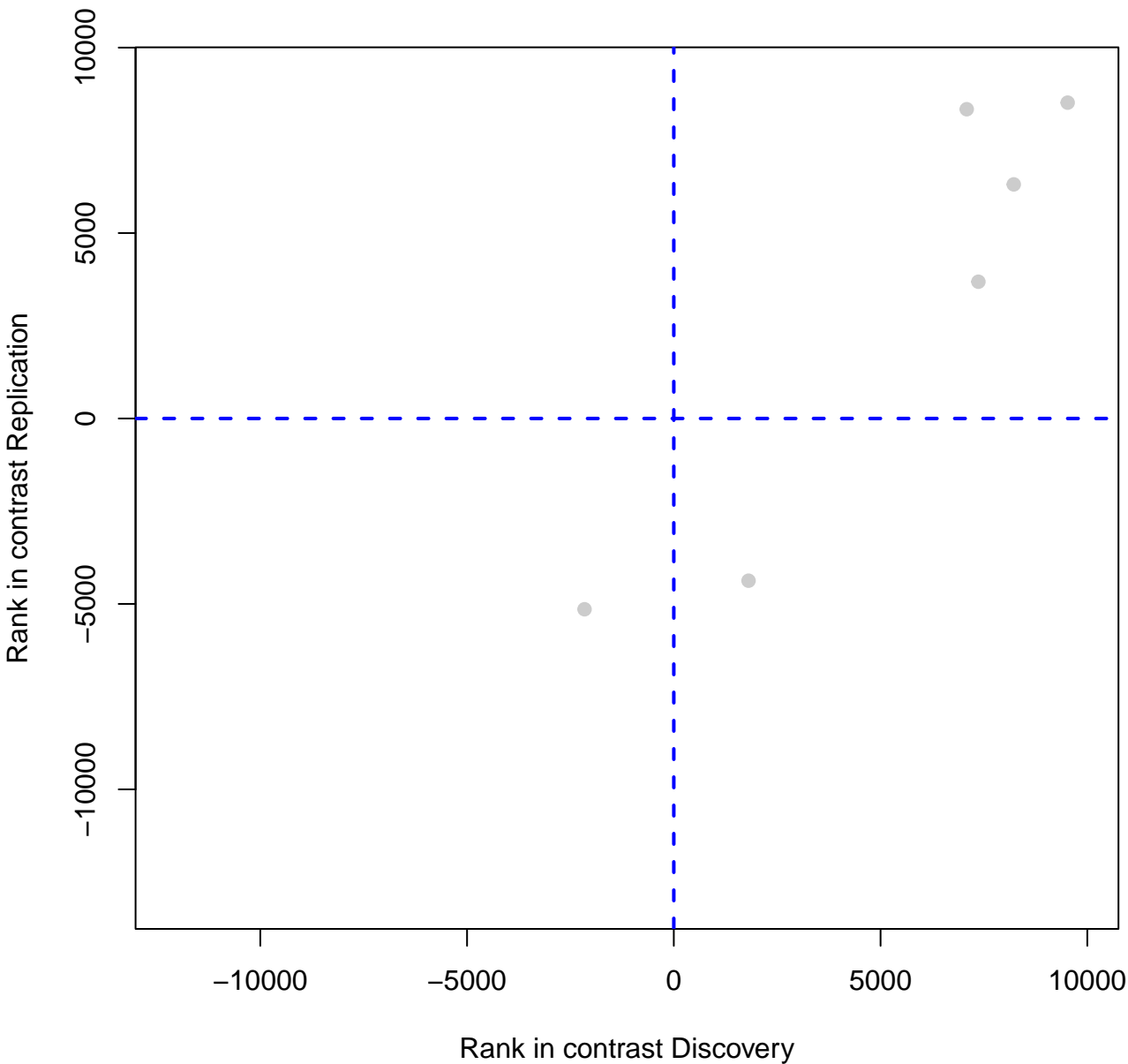
REACTOME_LYSOSPHINGOLIPID_AND_LPA_I



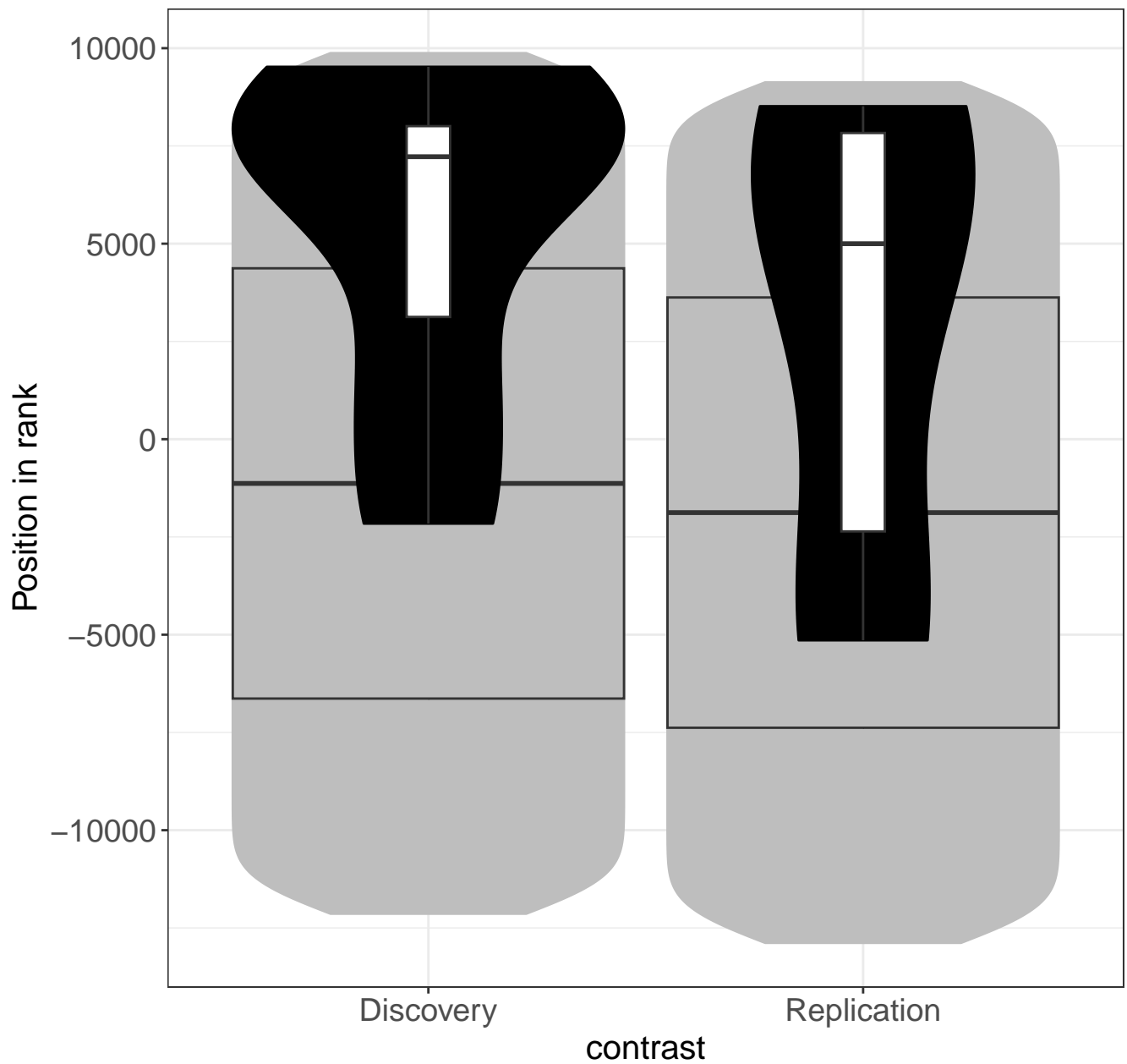
REACTOME_ACTIVATION_OF_TRKA_RECEPTORS



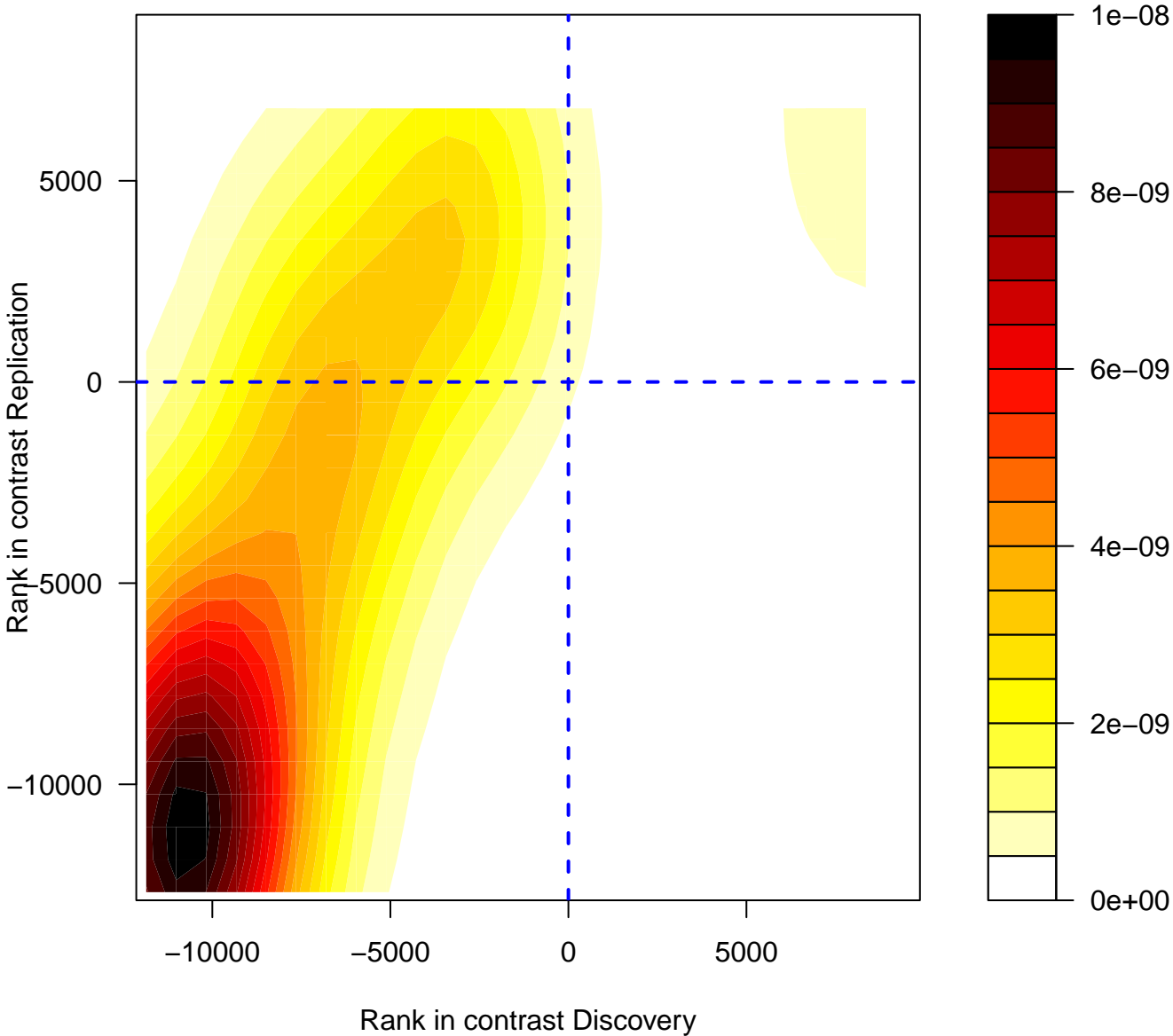
REACTOME_ACTIVATION_OF_TRKA_RECEPTORS



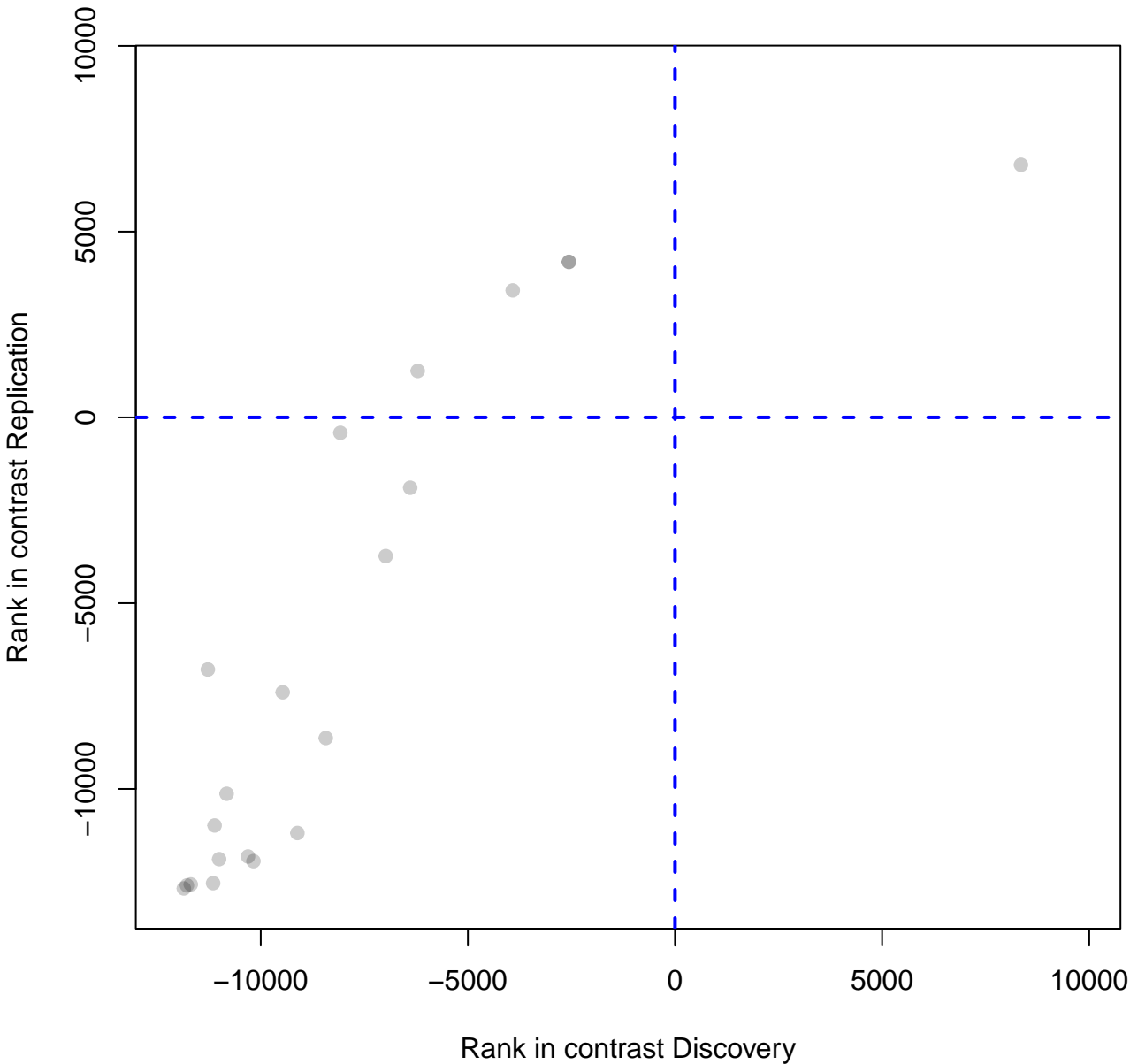
REACTOME_ACTIVATION_OF_TRKA_RECEPT



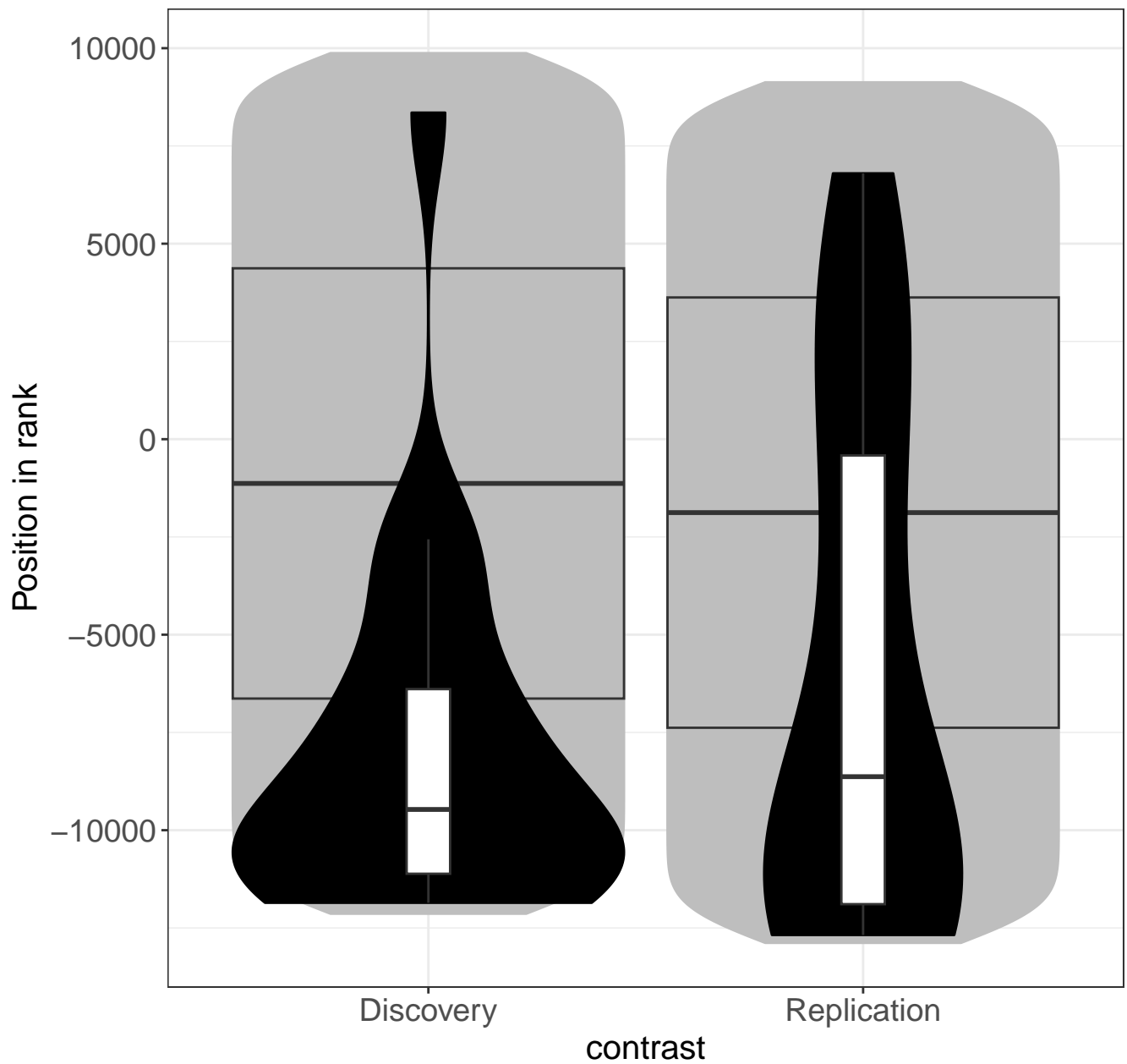
REACTOME_INITIAL_TRIGGERING_OF_COMPLEMENT



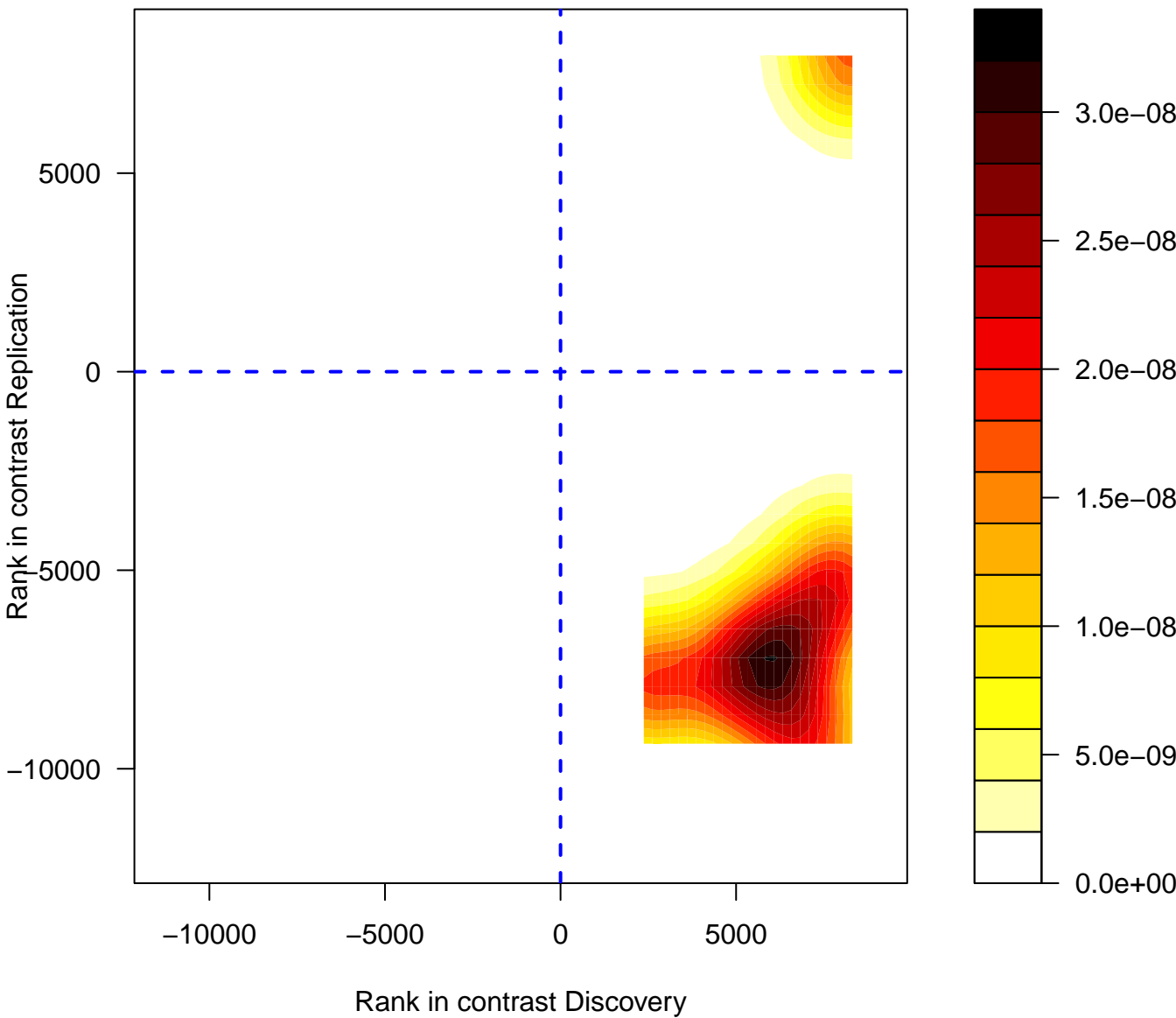
REACTOME_INITIAL_TRIGGERING_OF_COMPLEMENT



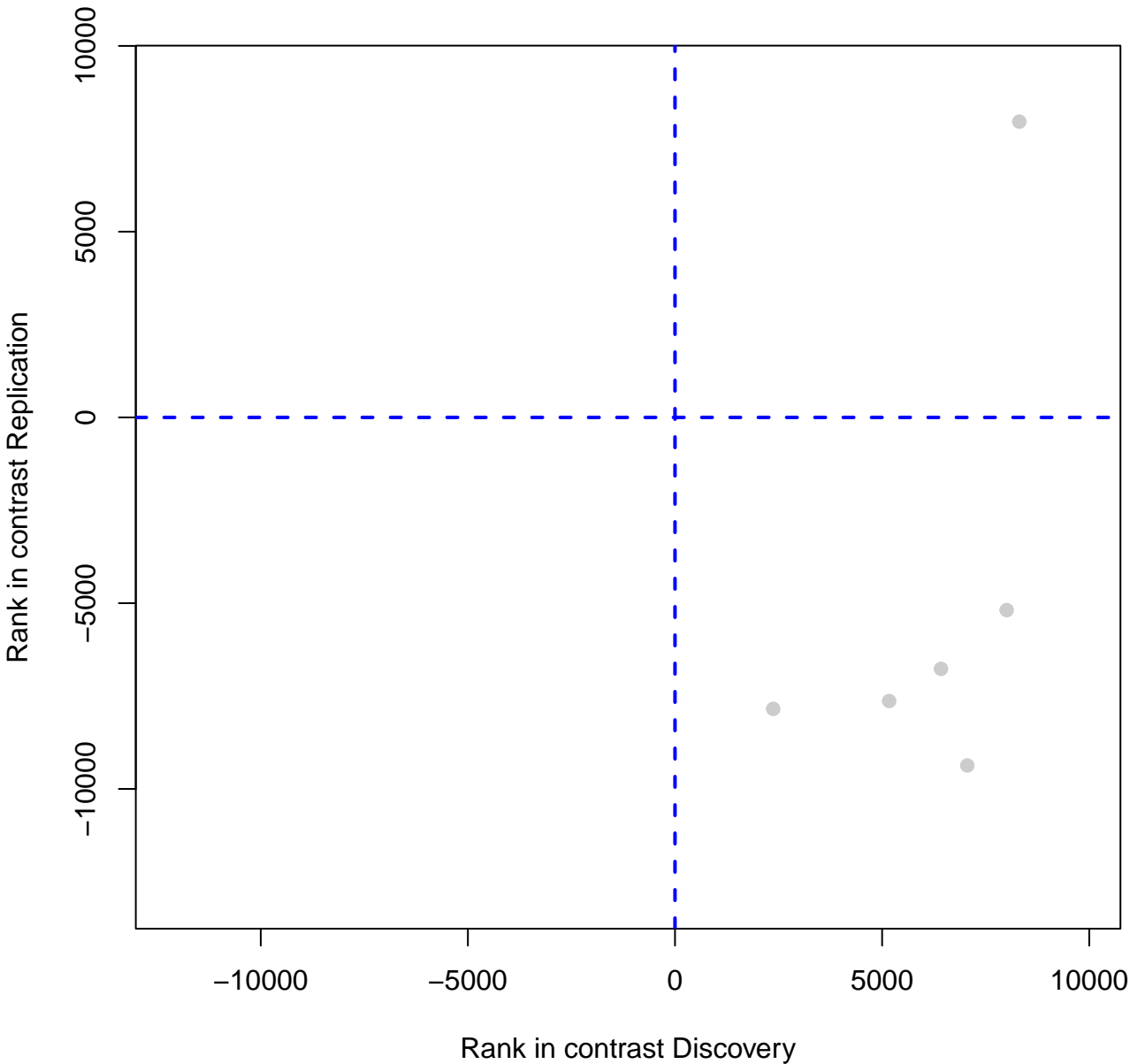
REACTOME_INITIAL_TRIGGERING_OF_COM



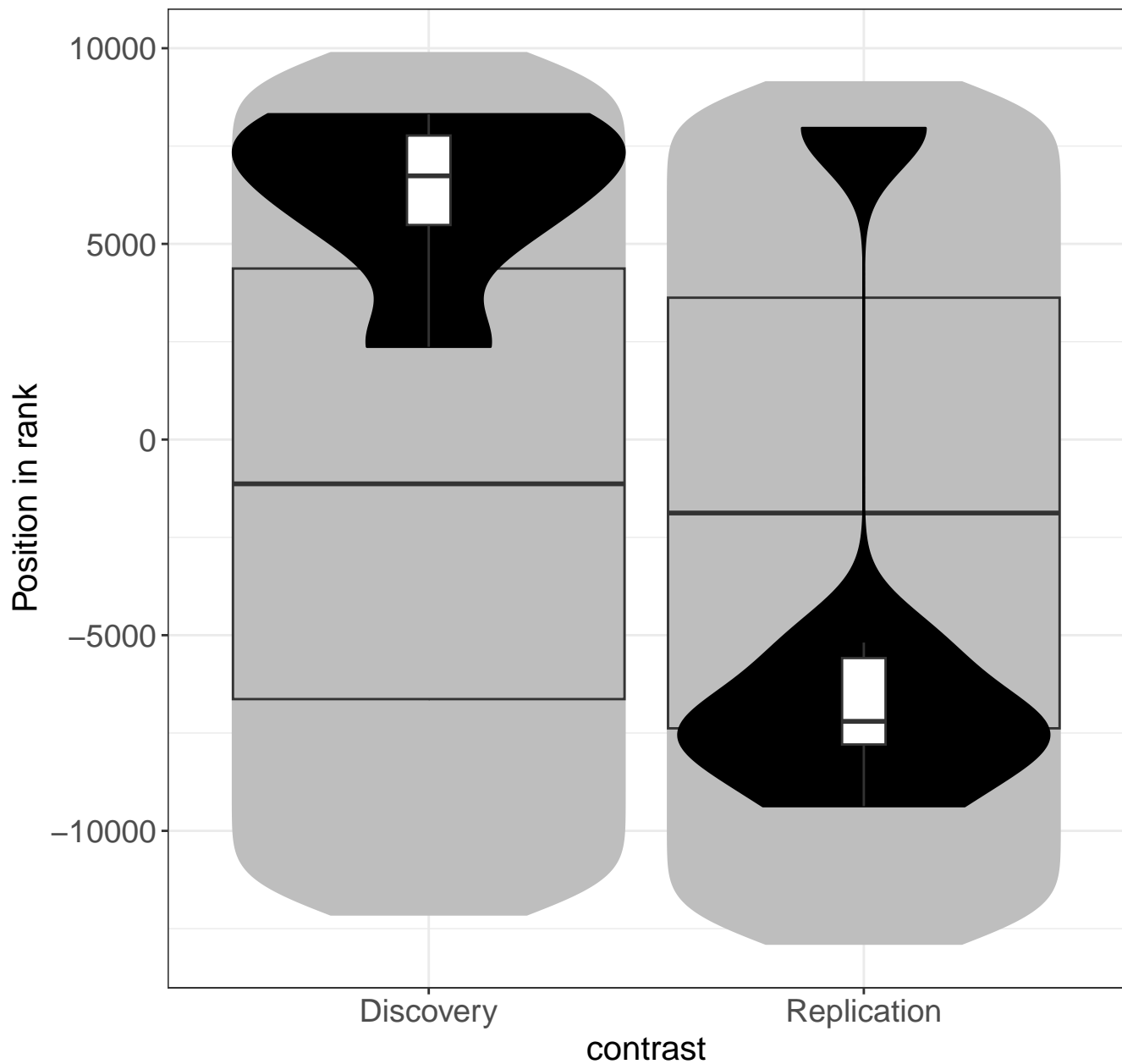
REACTOME_MODULATION_BY_MTB_OF_HOST_IMMUNE_S



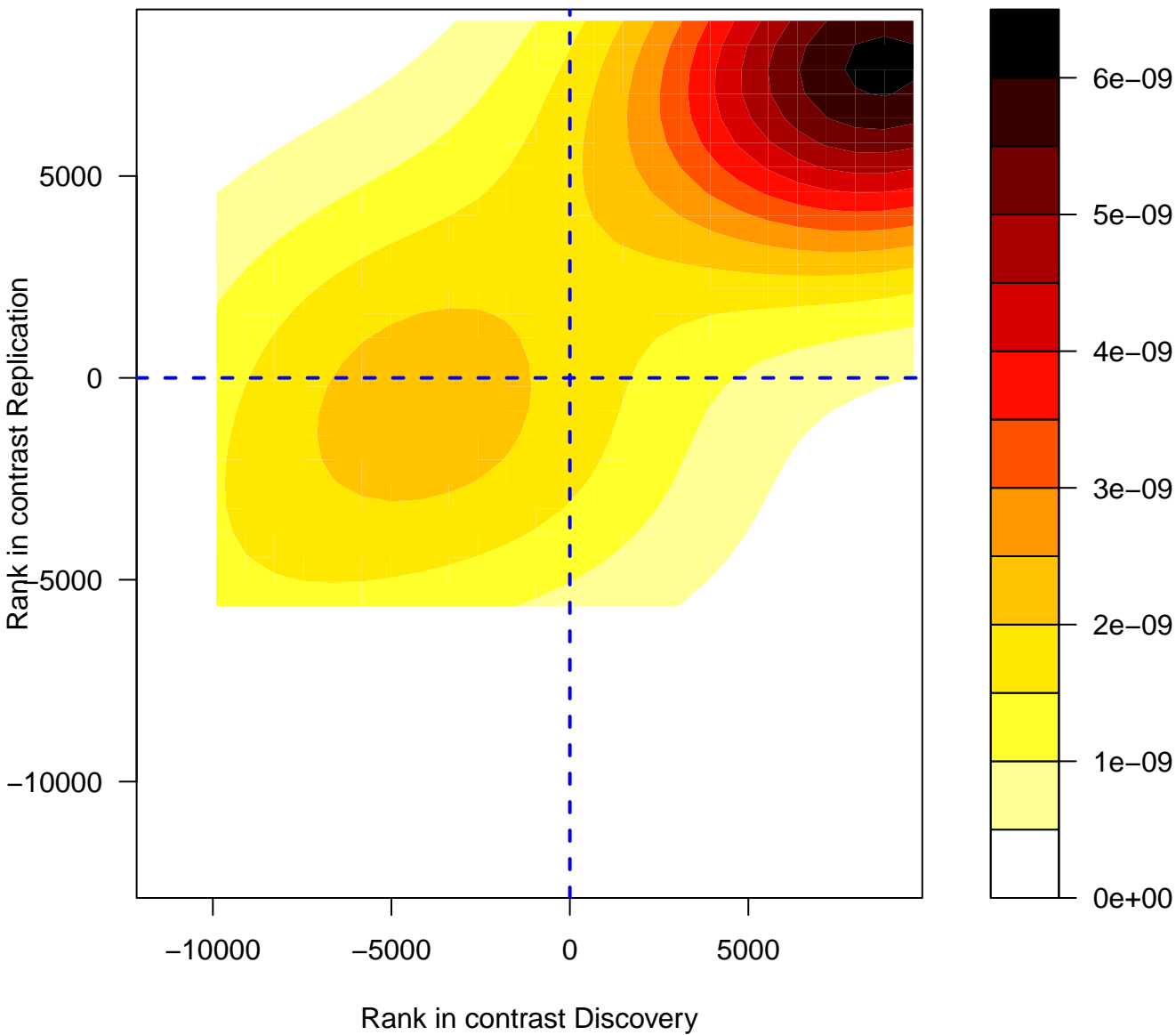
REACTOME_MODULATION_BY_MTB_OF_HOST_IMMUNE_SYSTEM



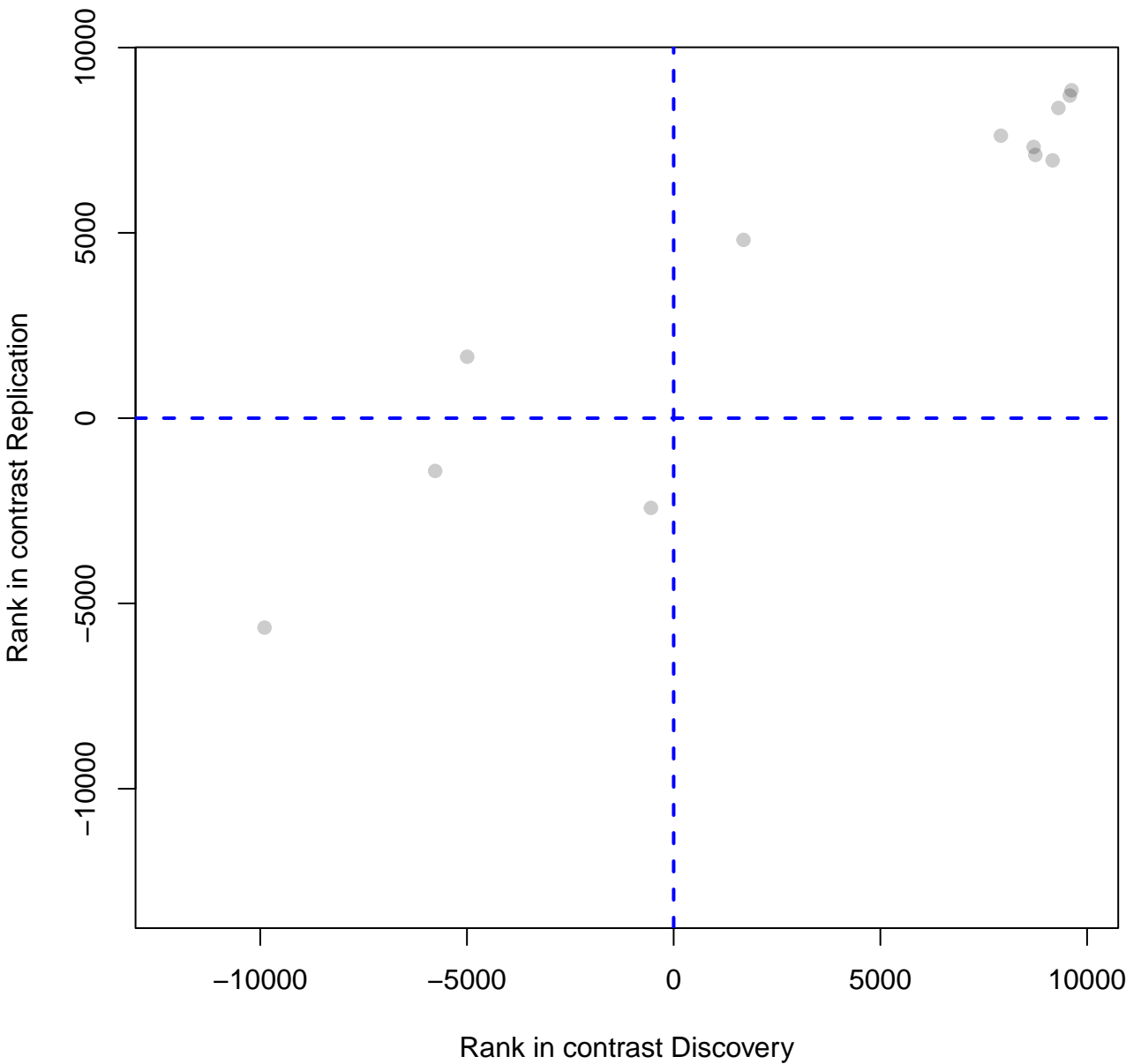
REACTOME_MODULATION_BY_MTB_OF_HOS



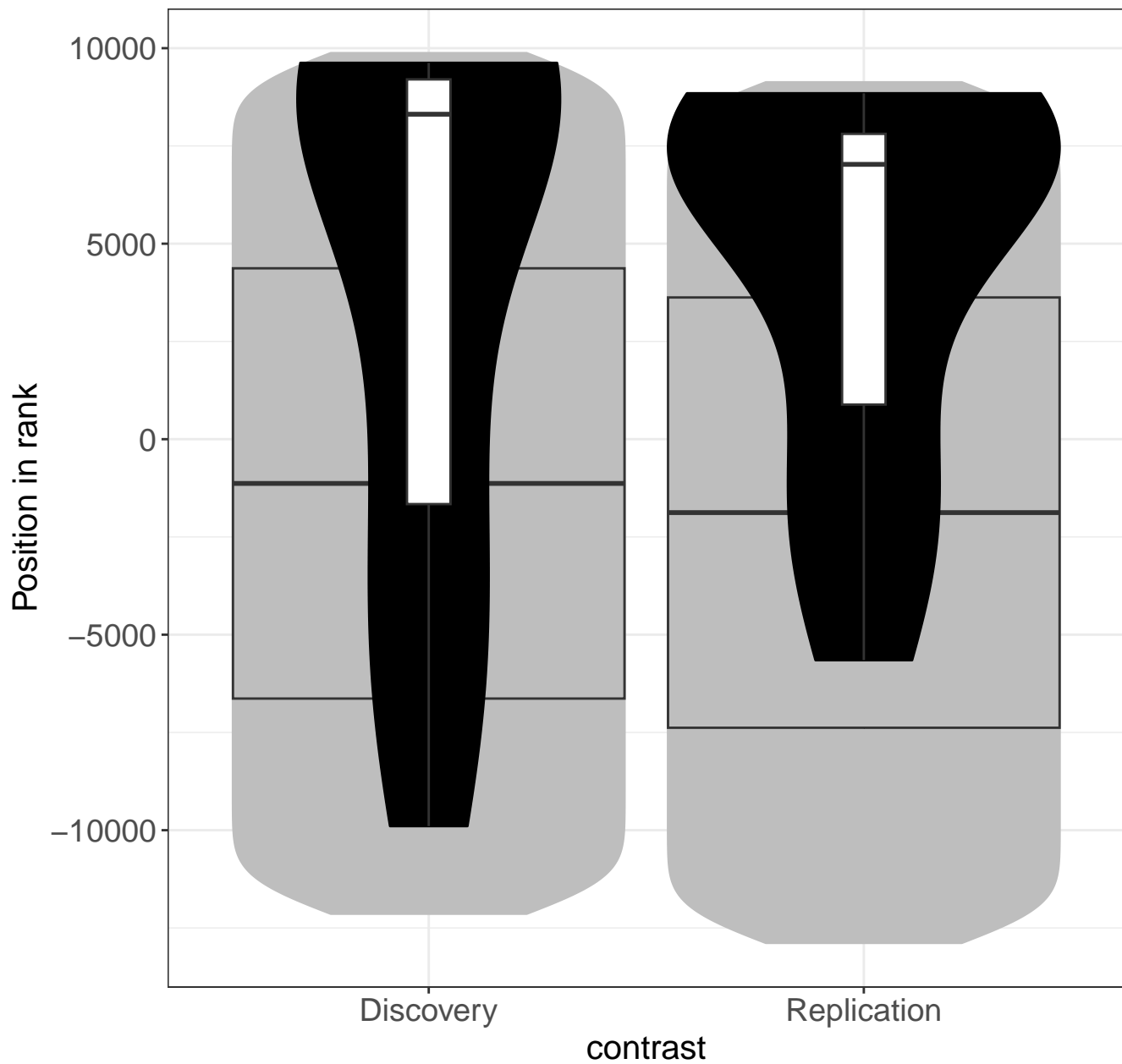
TOME_TRANSCRIPTIONAL_REGULATION_OF_TESTIS_DIFFE



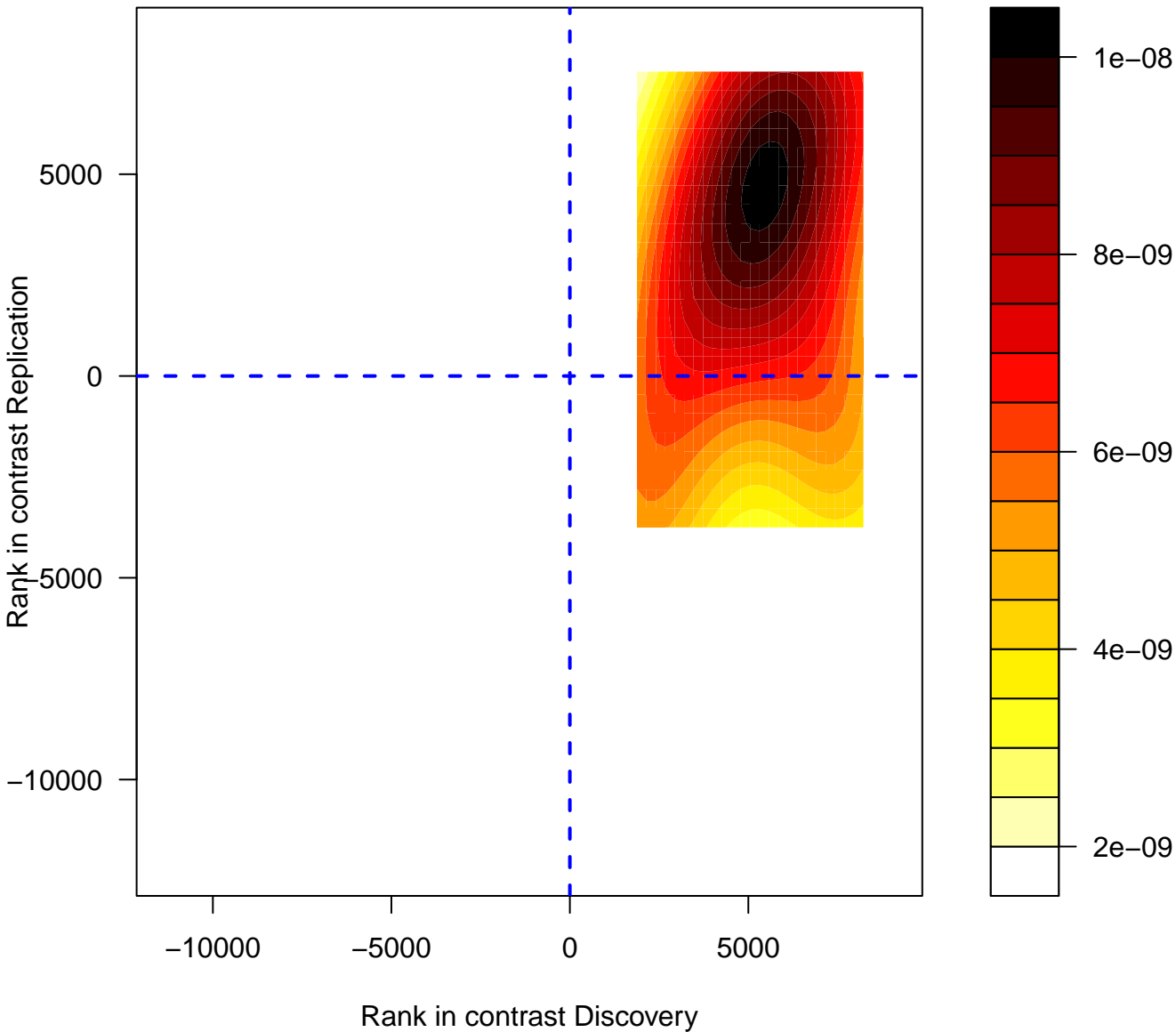
REACTOME_TRANSCRIPTIONAL_REGULATION_OF_TESTIS_DIFFERENTIATION



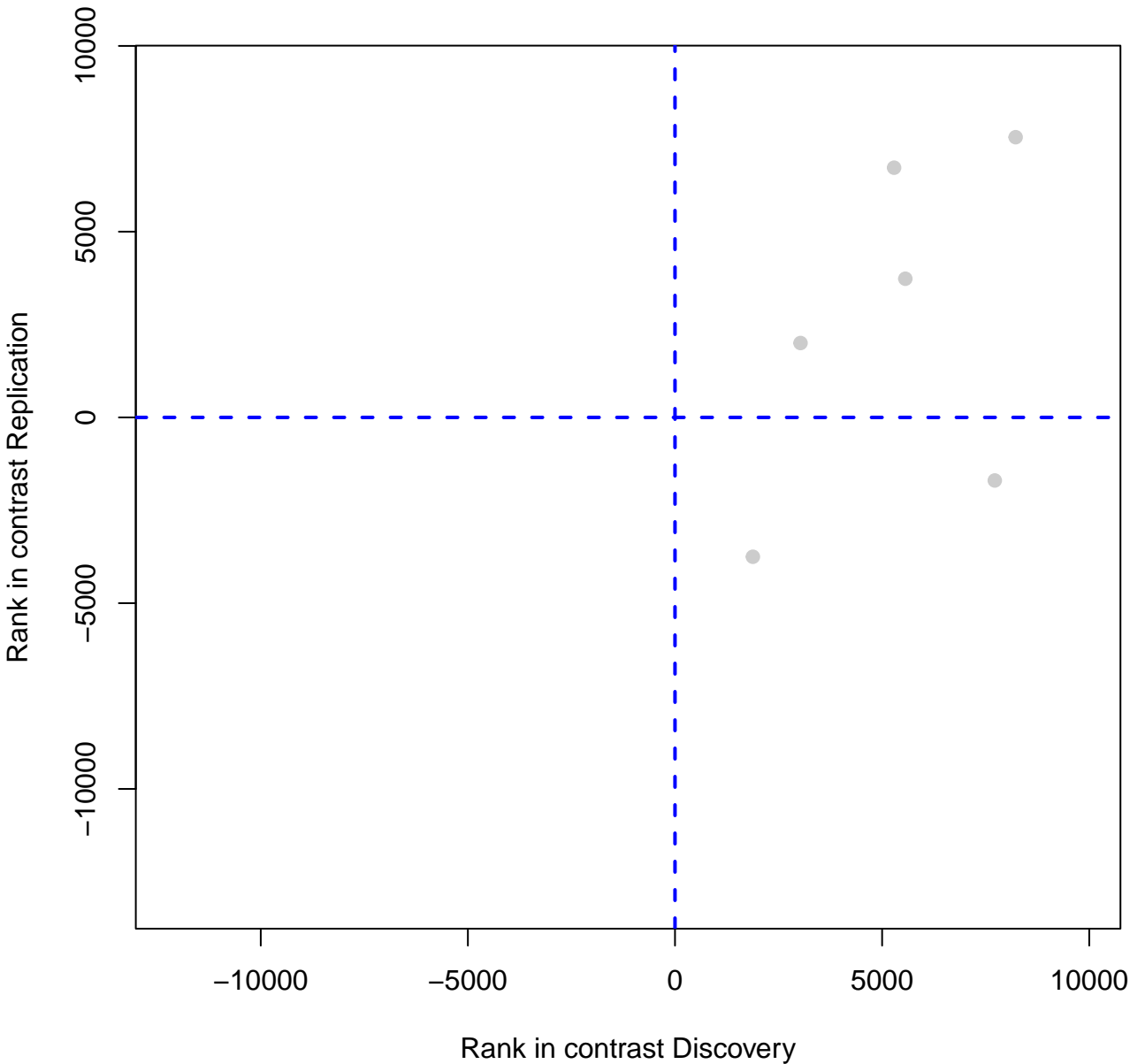
REACTOME_TRANSCRIPTIONAL_REGULATIO



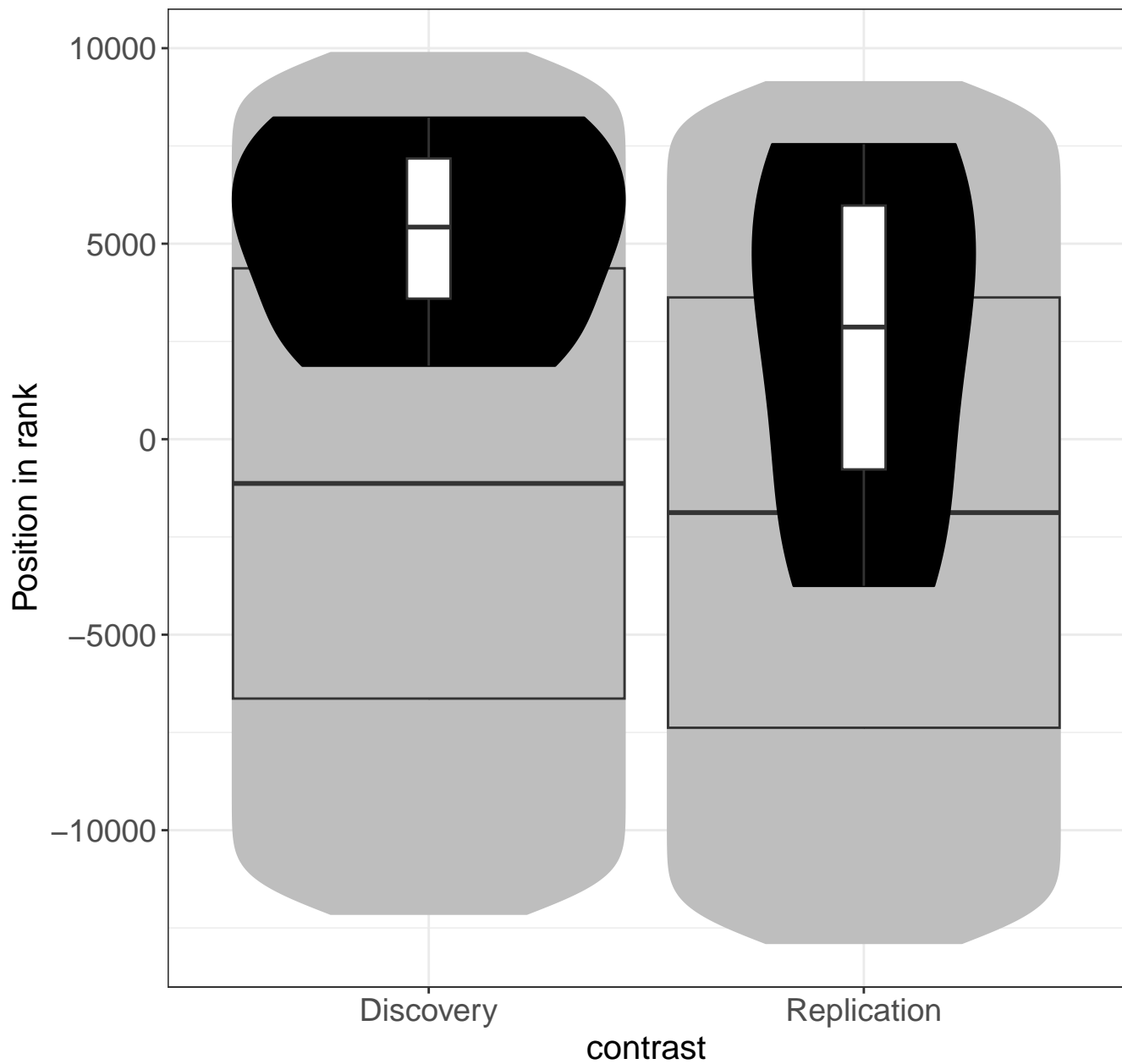
REACTOME_SYNTHESIS_OF_LIPOXINS_LX



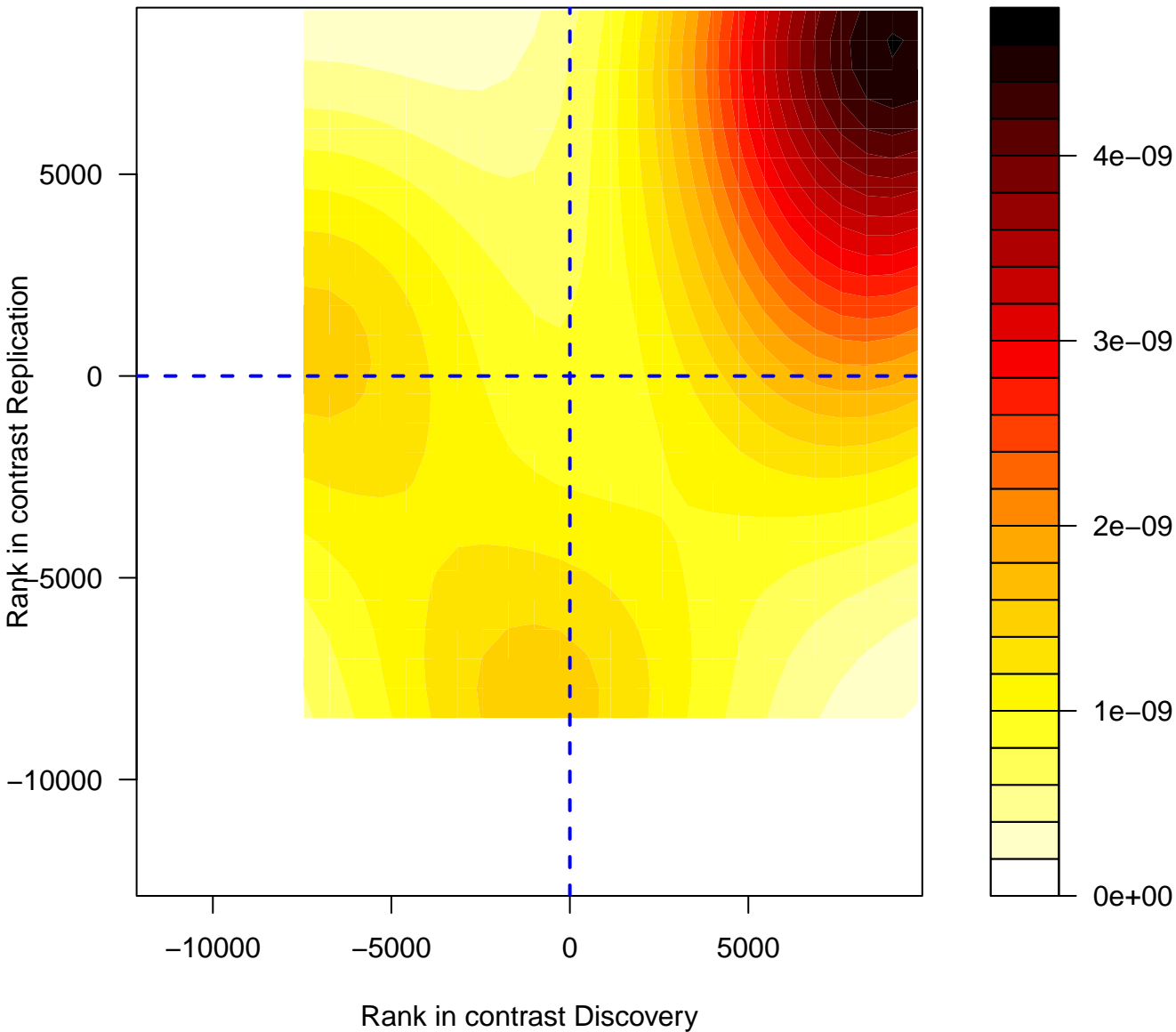
REACTOME_SYNTHESIS_OF_LIPOXINS_LX



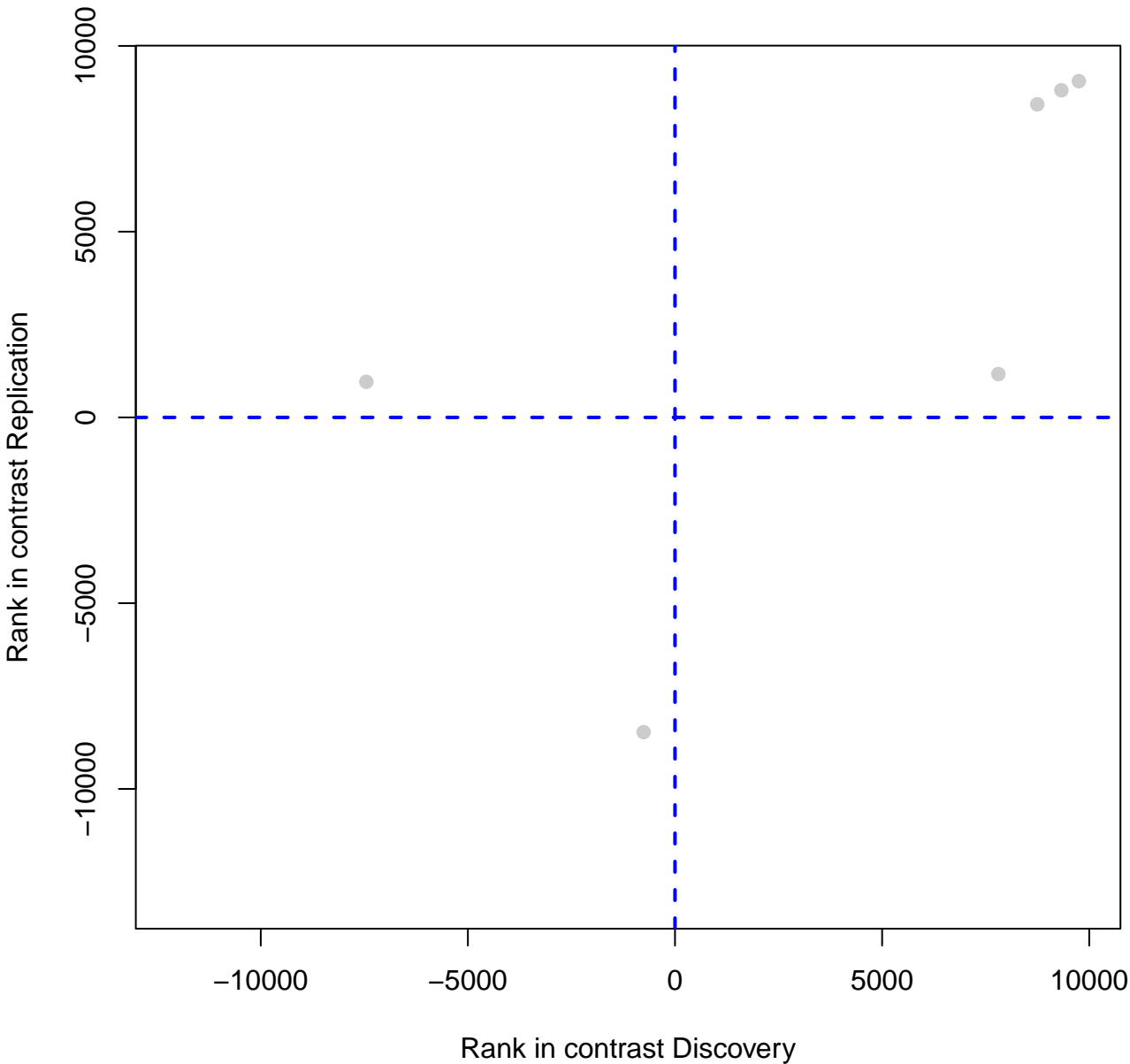
REACTOME_SYNTHESIS_OF_LIPOXINS_LX



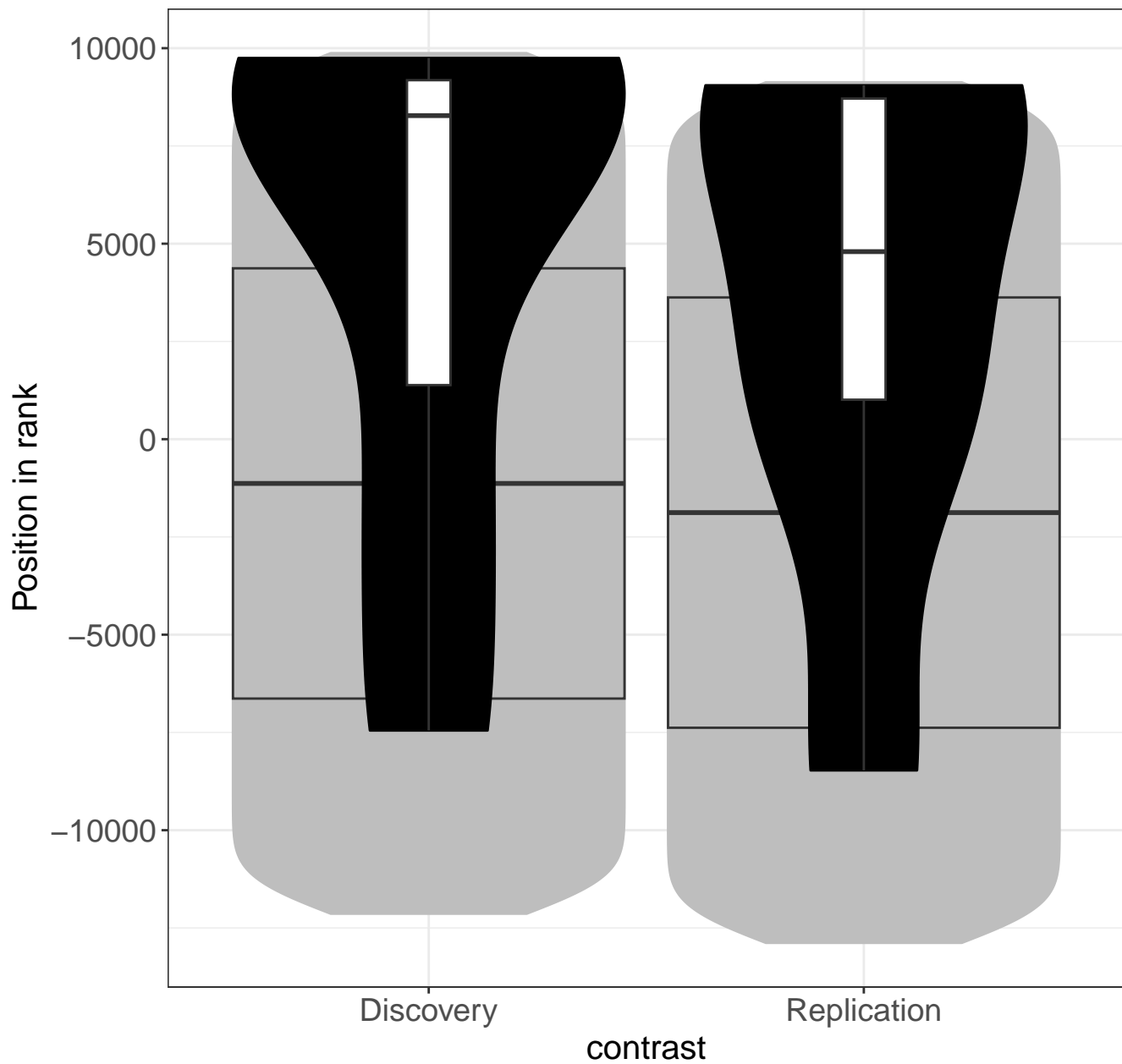
REACTOME_SIGNALING_BY_LRP5_MUTANTS



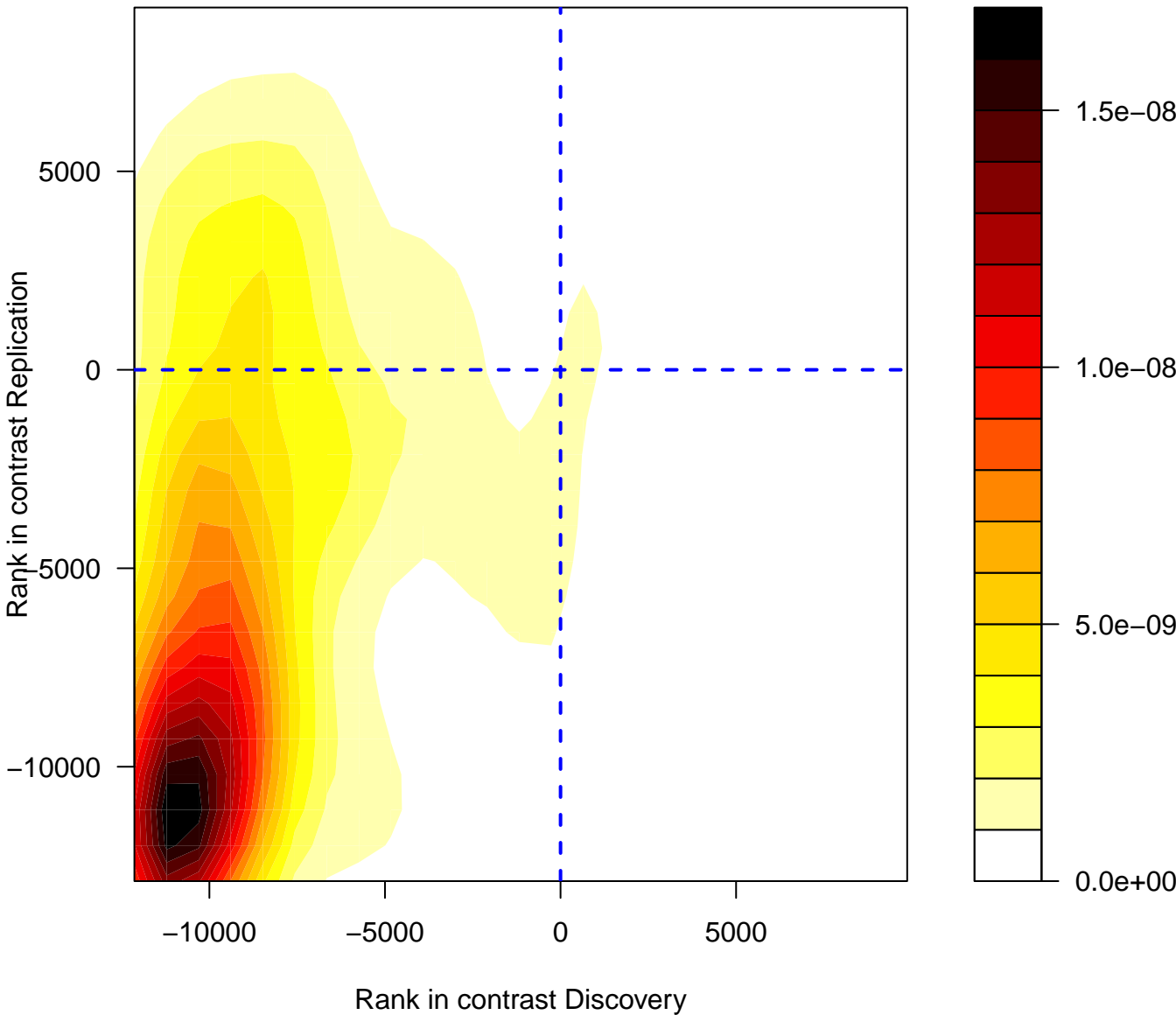
REACTOME_SIGNALING_BY_LRP5_MUTANTS



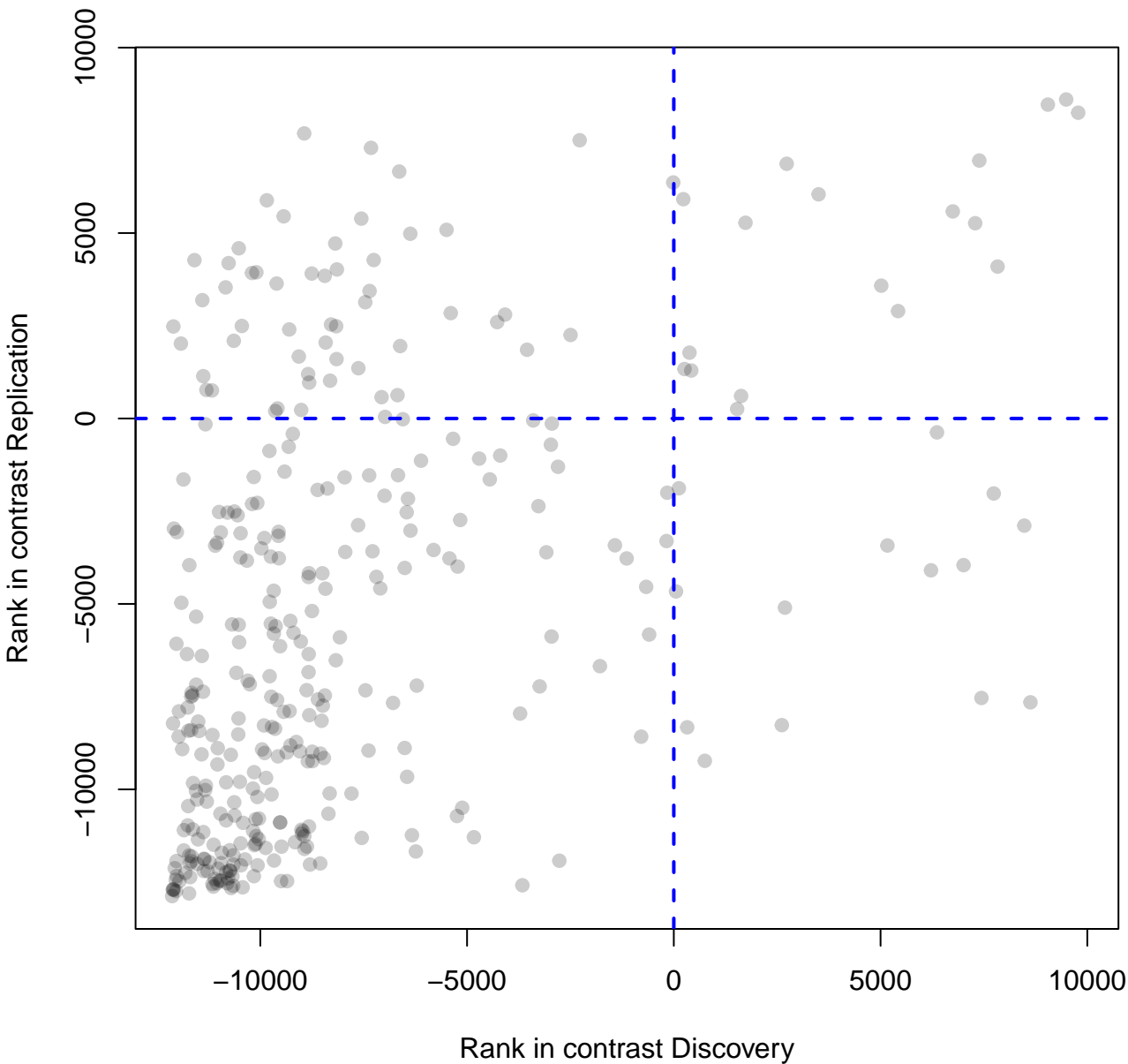
REACTOME_SIGNALING_BY_LRP5_MUTANTS



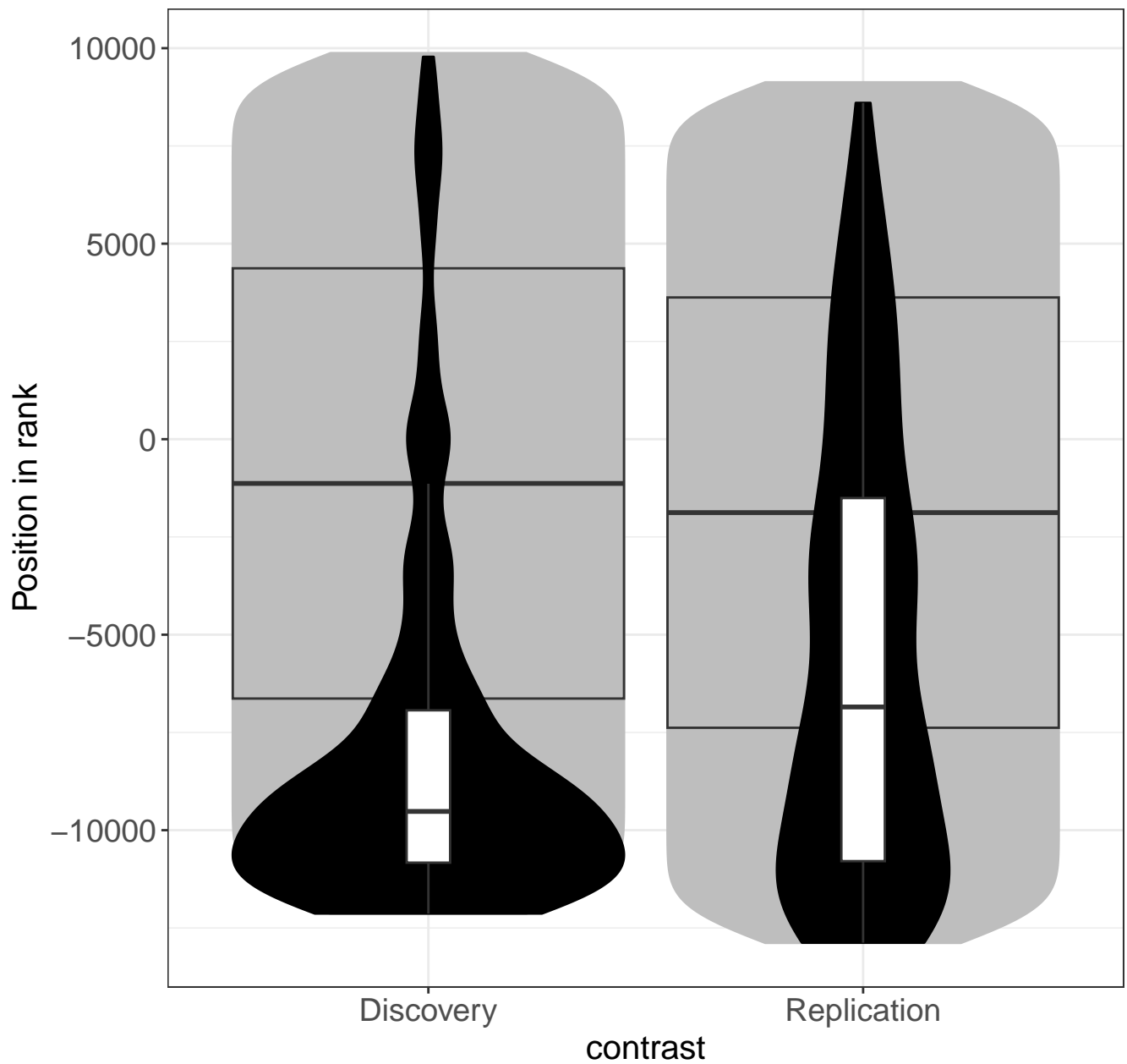
REACTOME_OLFACTORY_SIGNALING_PATHWAY



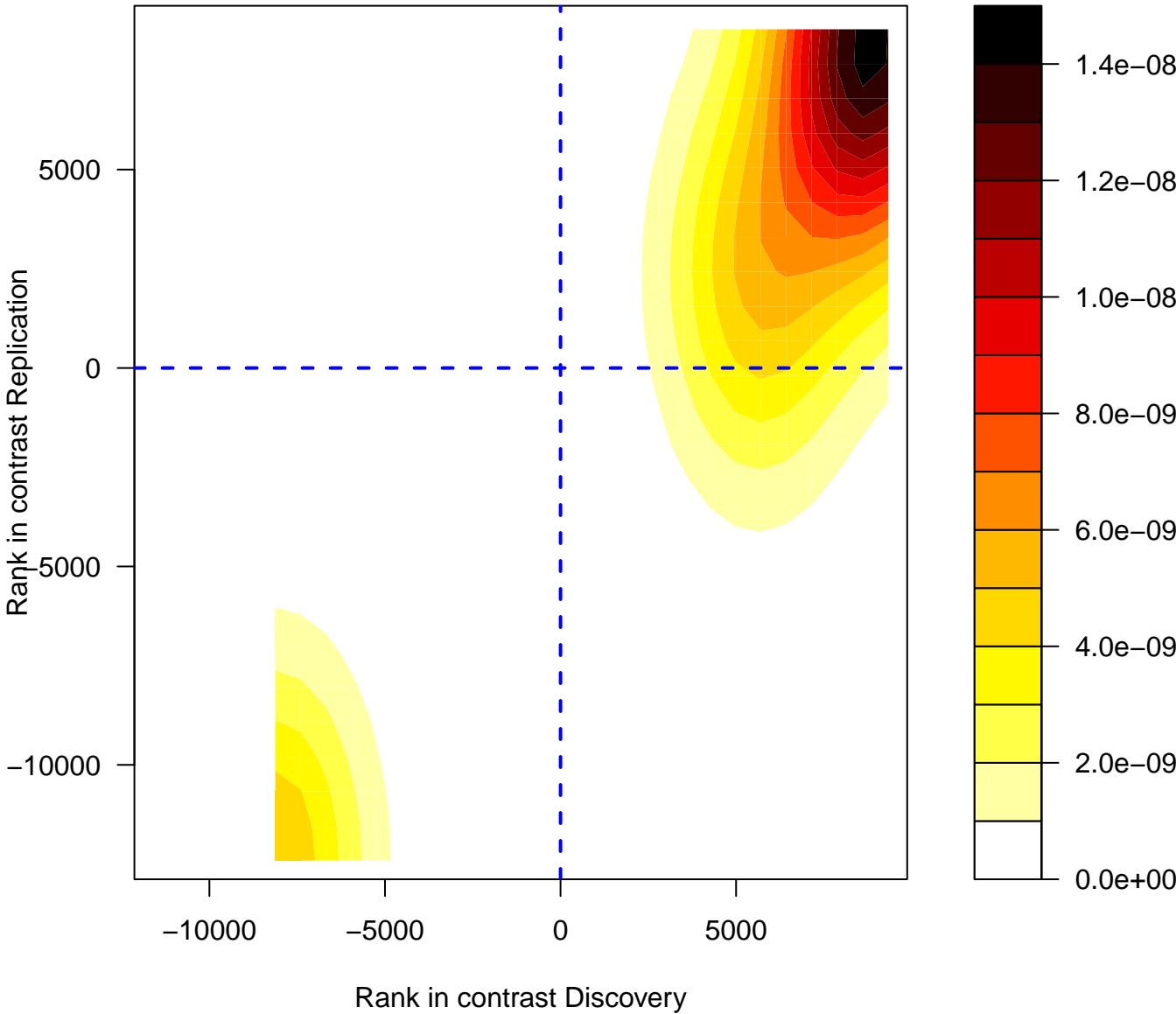
REACTOME_OLFACTORY_SIGNALING_PATHWAY



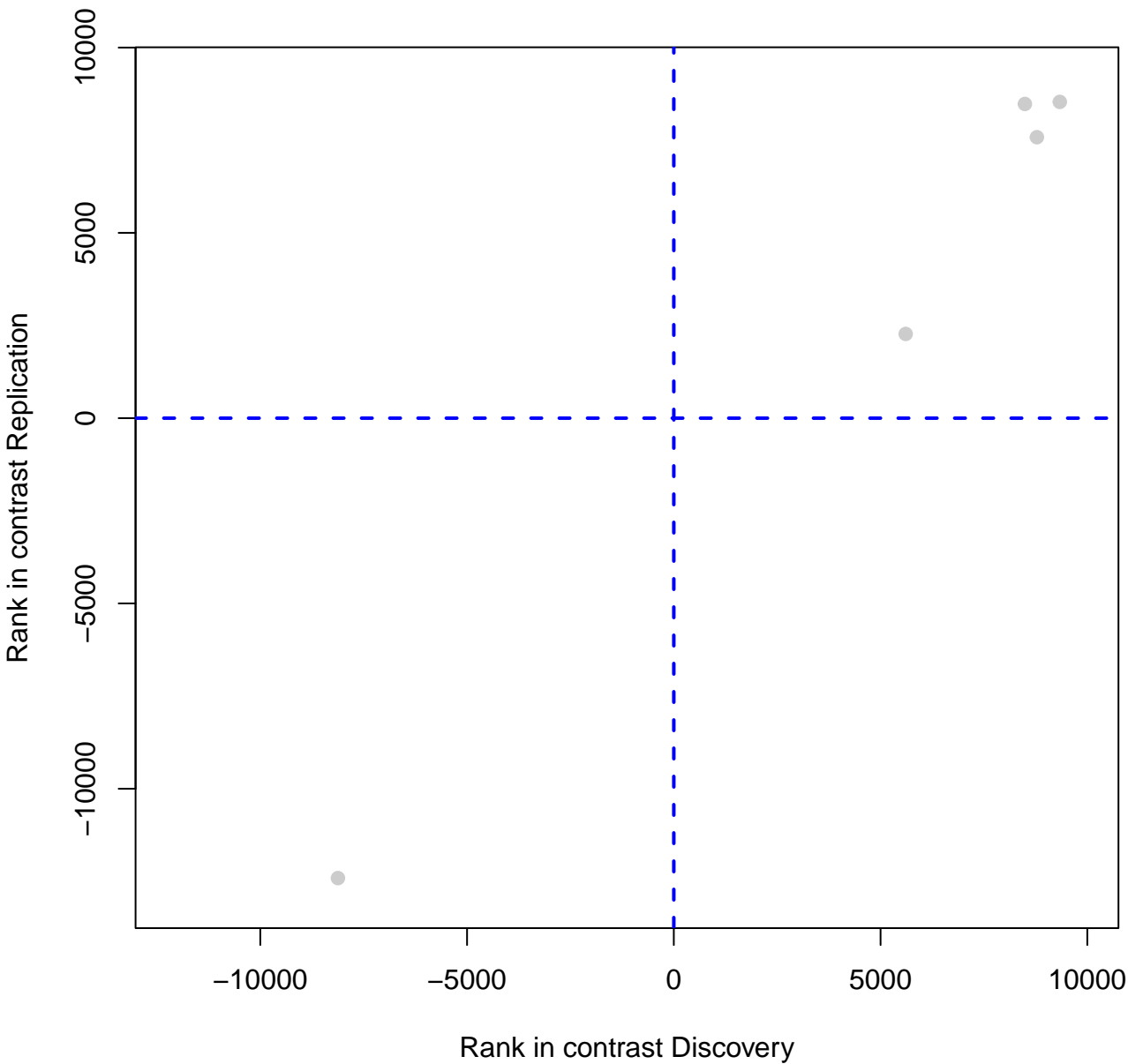
REACTOME_OLFACTORY_SIGNALING_PATHWAY



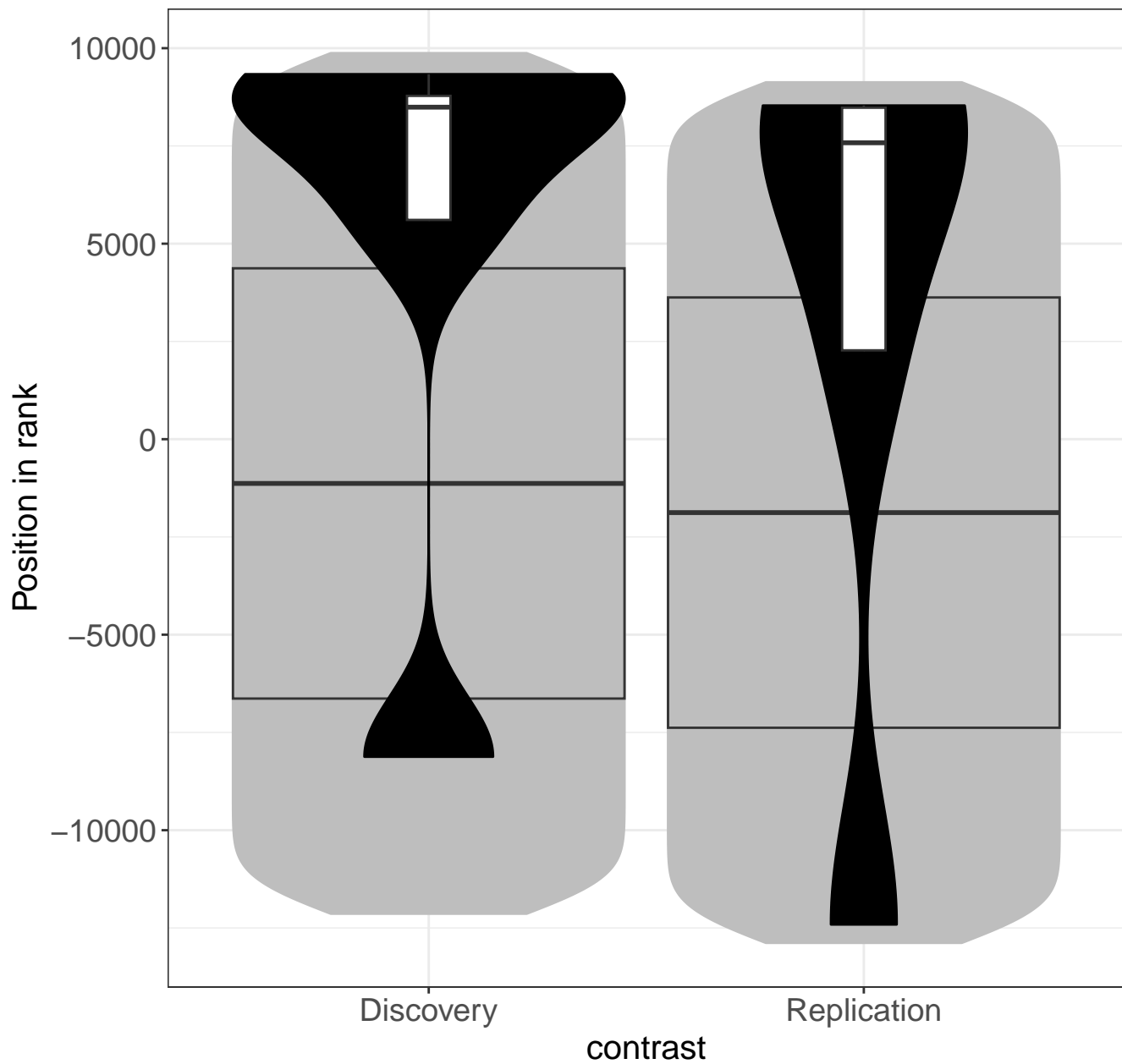
REACTOME_CD22_MEDIATED_BCR_REGULATION



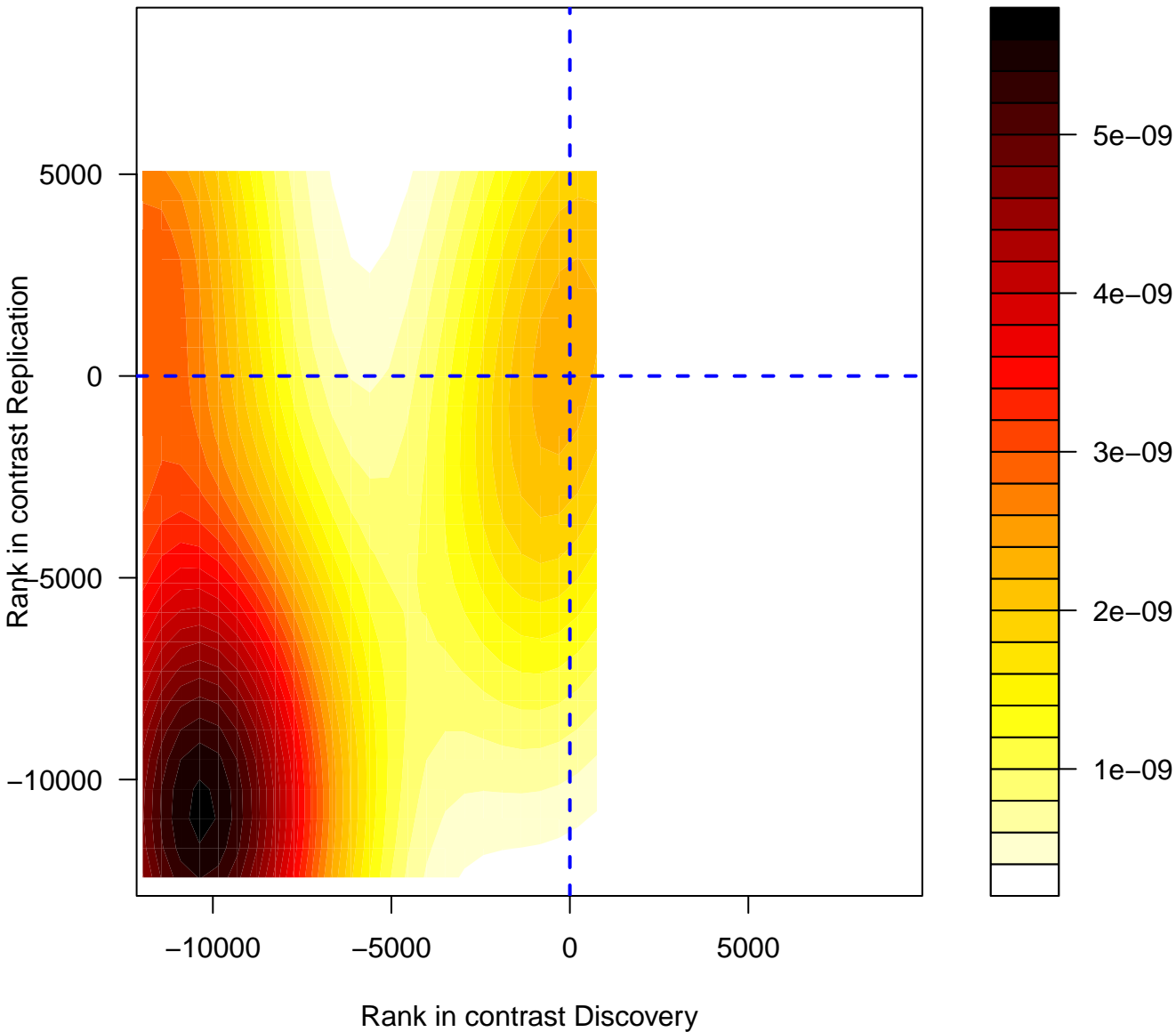
REACTOME_CD22_MEDIATED_BCR_REGULATION



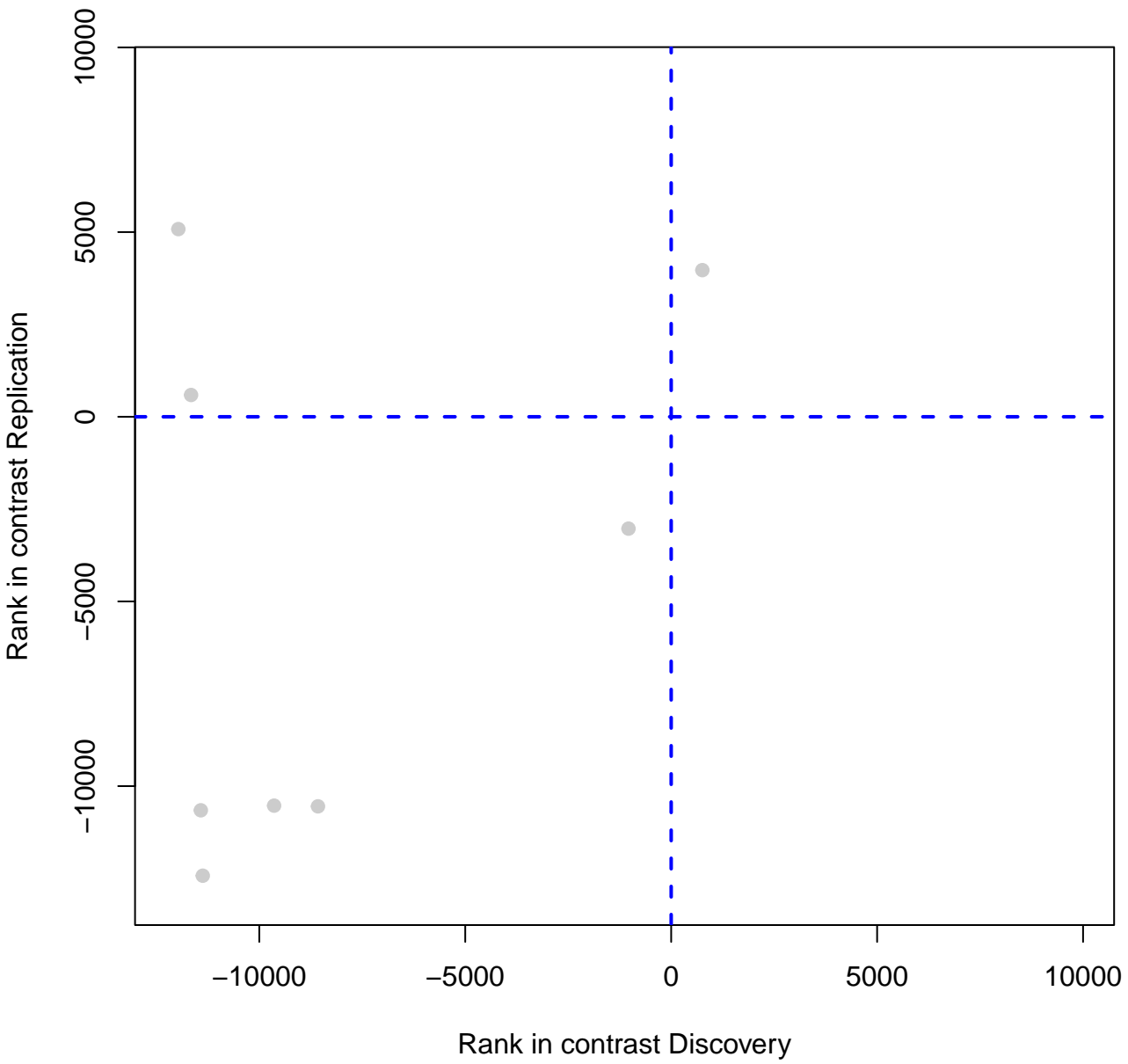
REACTOME_CD22_MEDIATED_BCR_REGULA



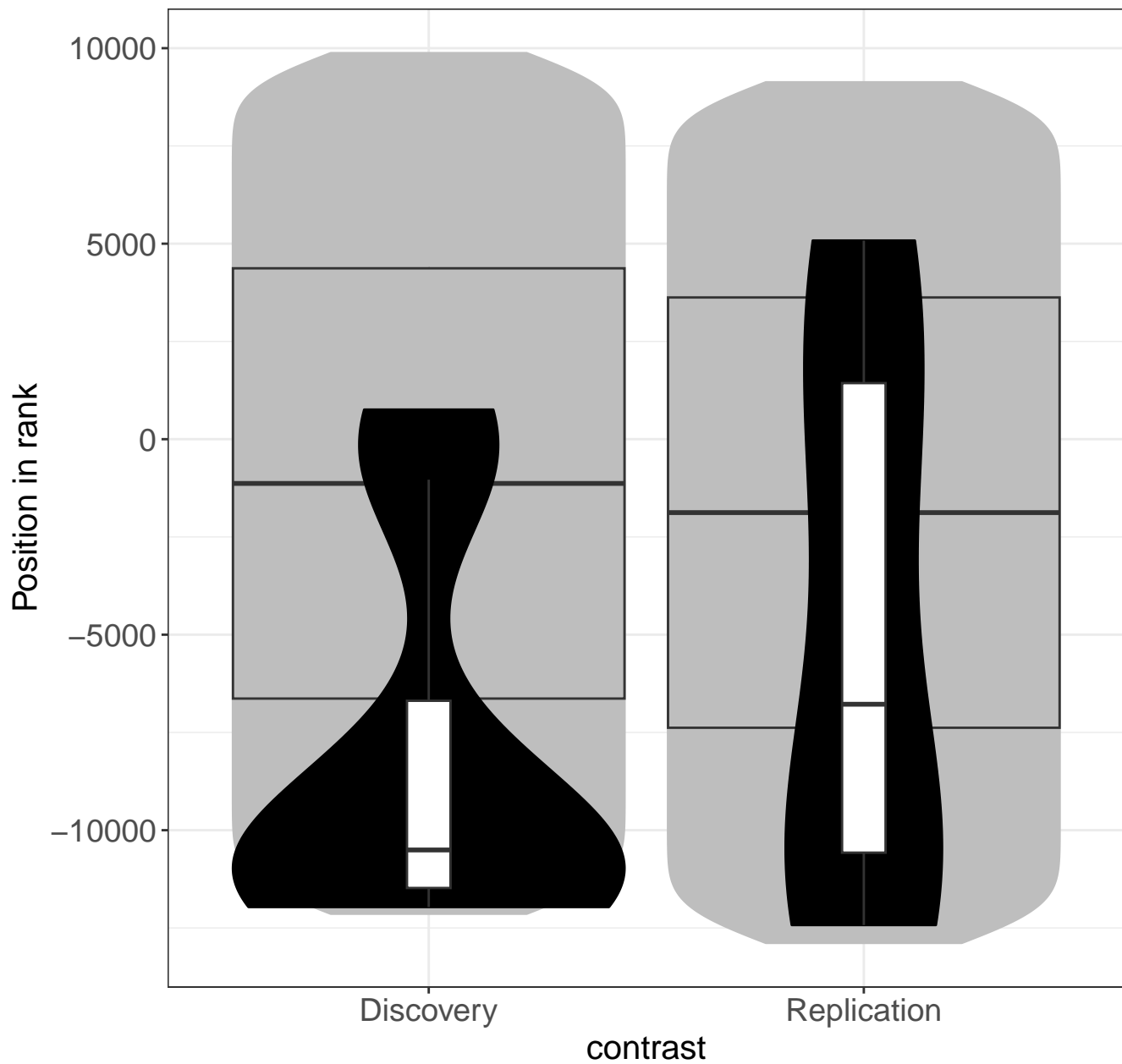
REACTOME_DEFECTIVE_ST3GAL3_CAUSES_MCT12_AND_I



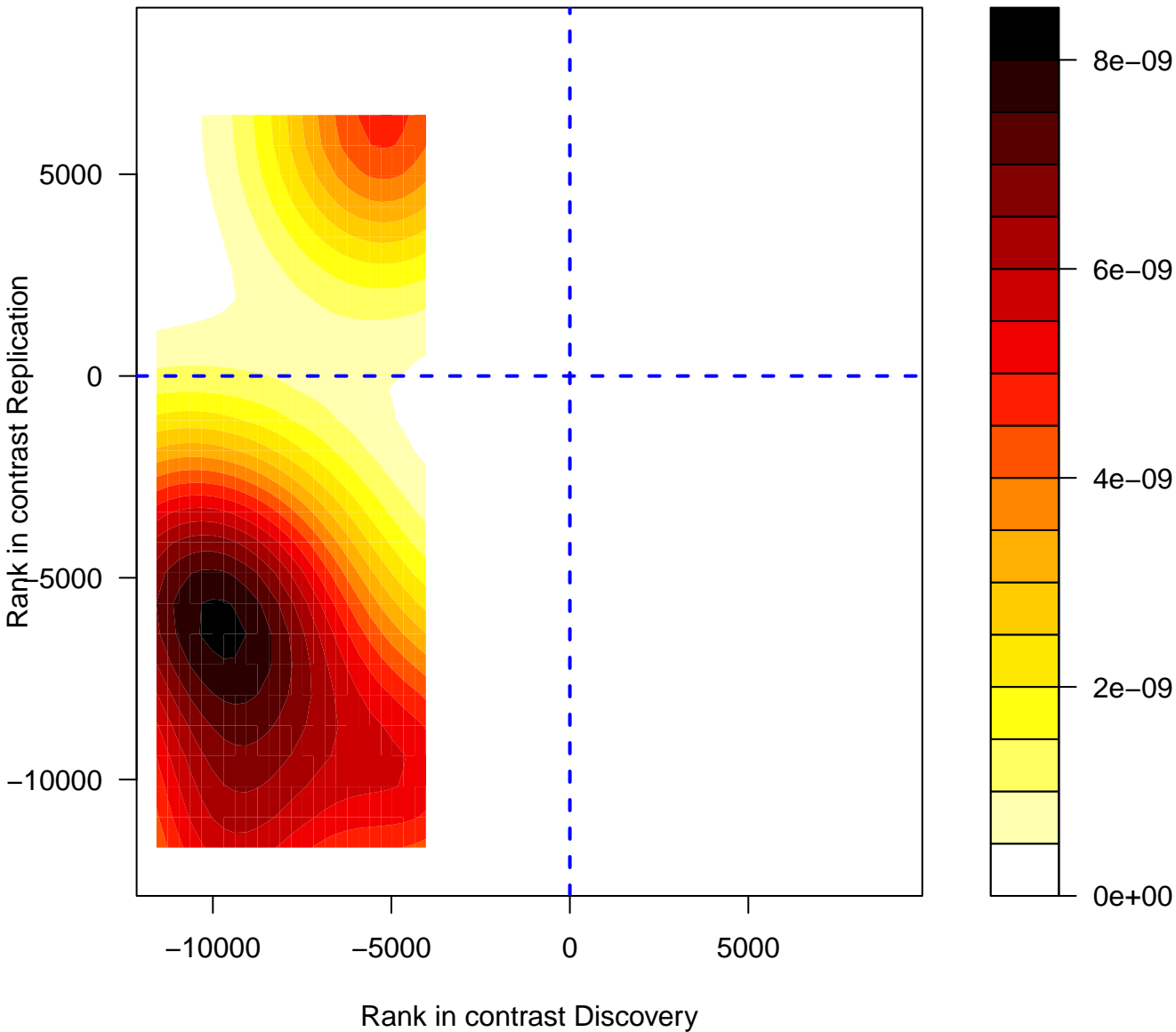
REACTOME_DEFECTIVE_ST3GAL3_CAUSES_MCT12_AND_EIEE15



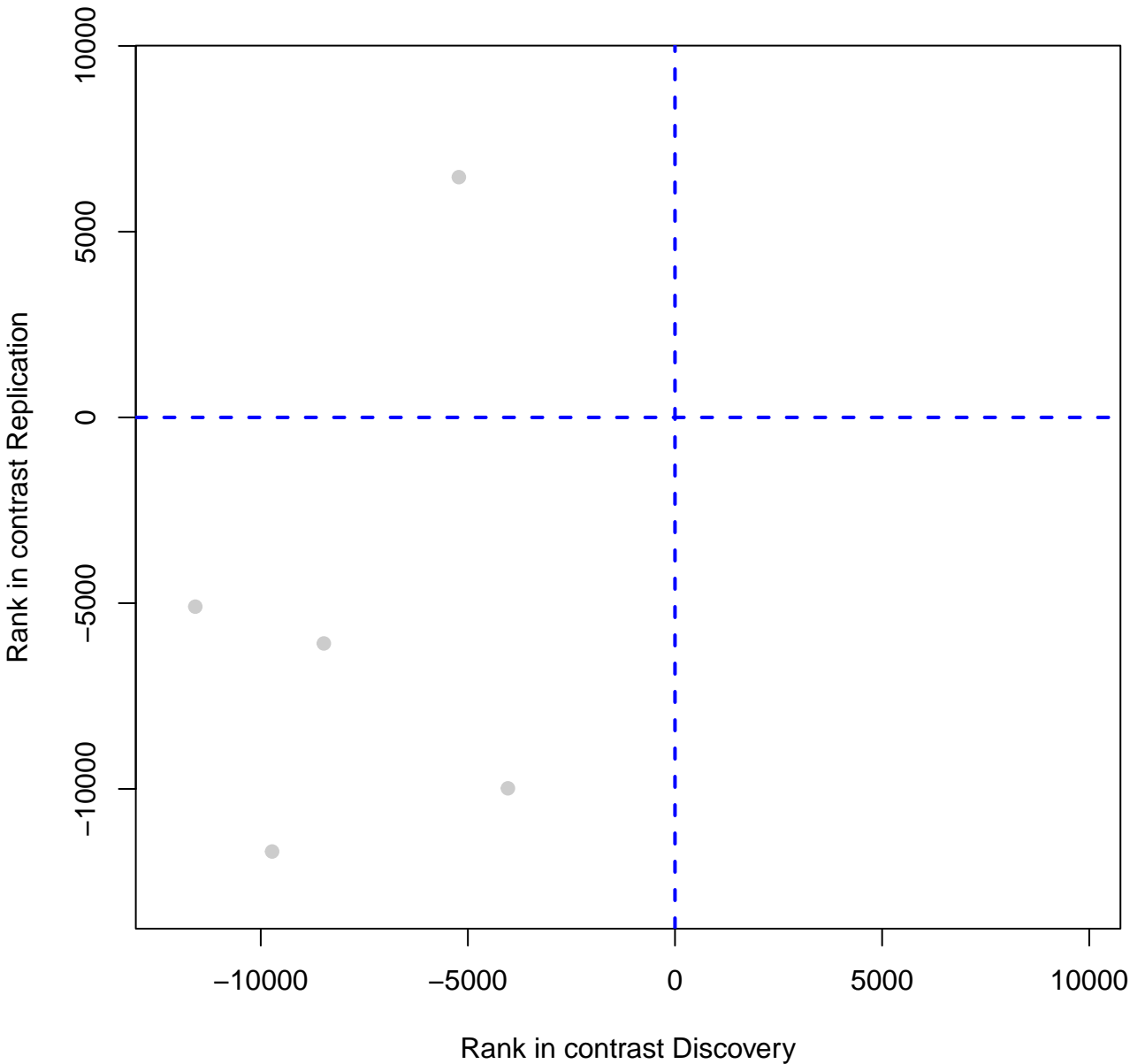
REACTOME_DEFECTIVE_ST3GAL3_CAUSES



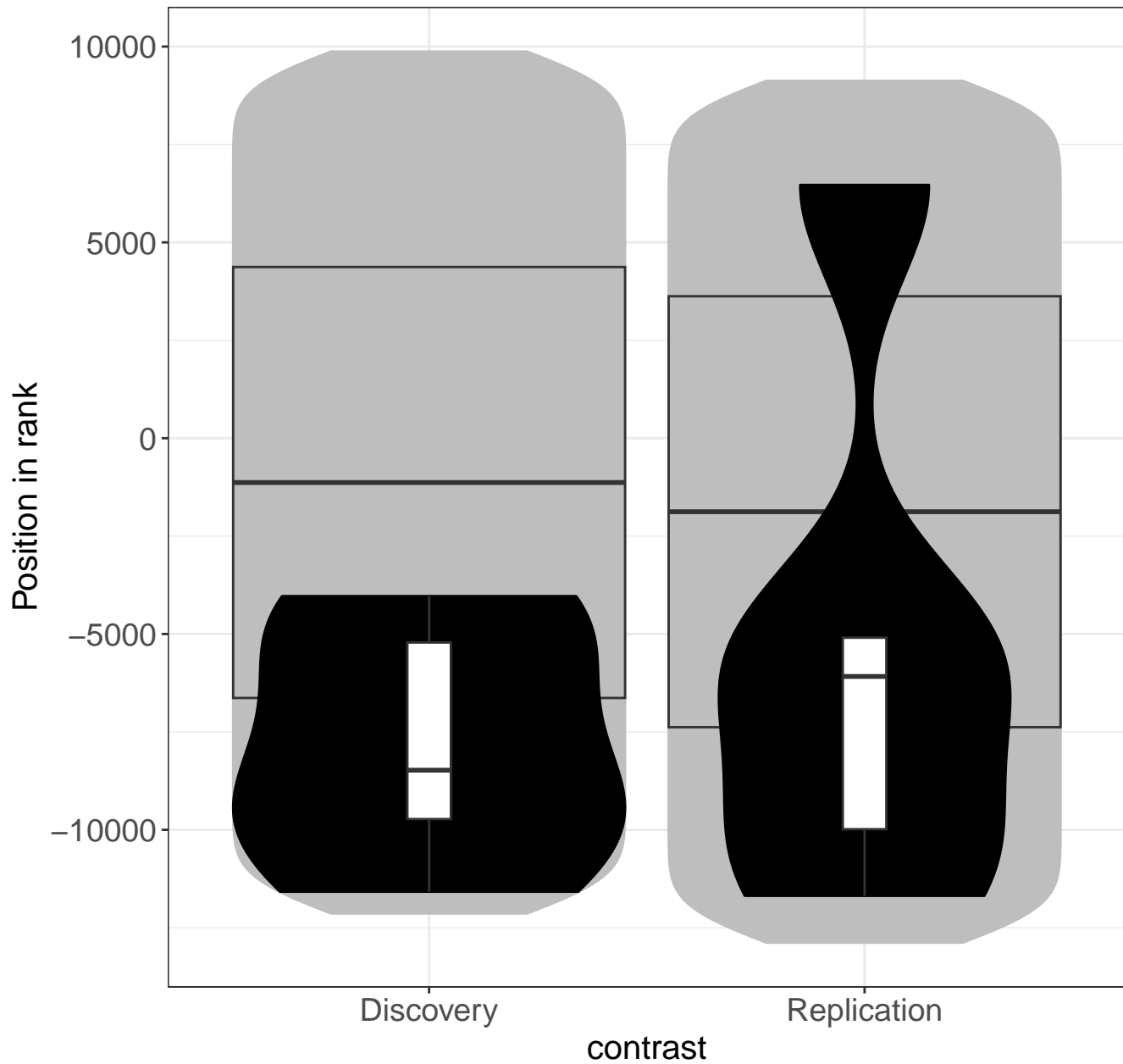
REACTOME_CIPROFLOXACIN_ADME



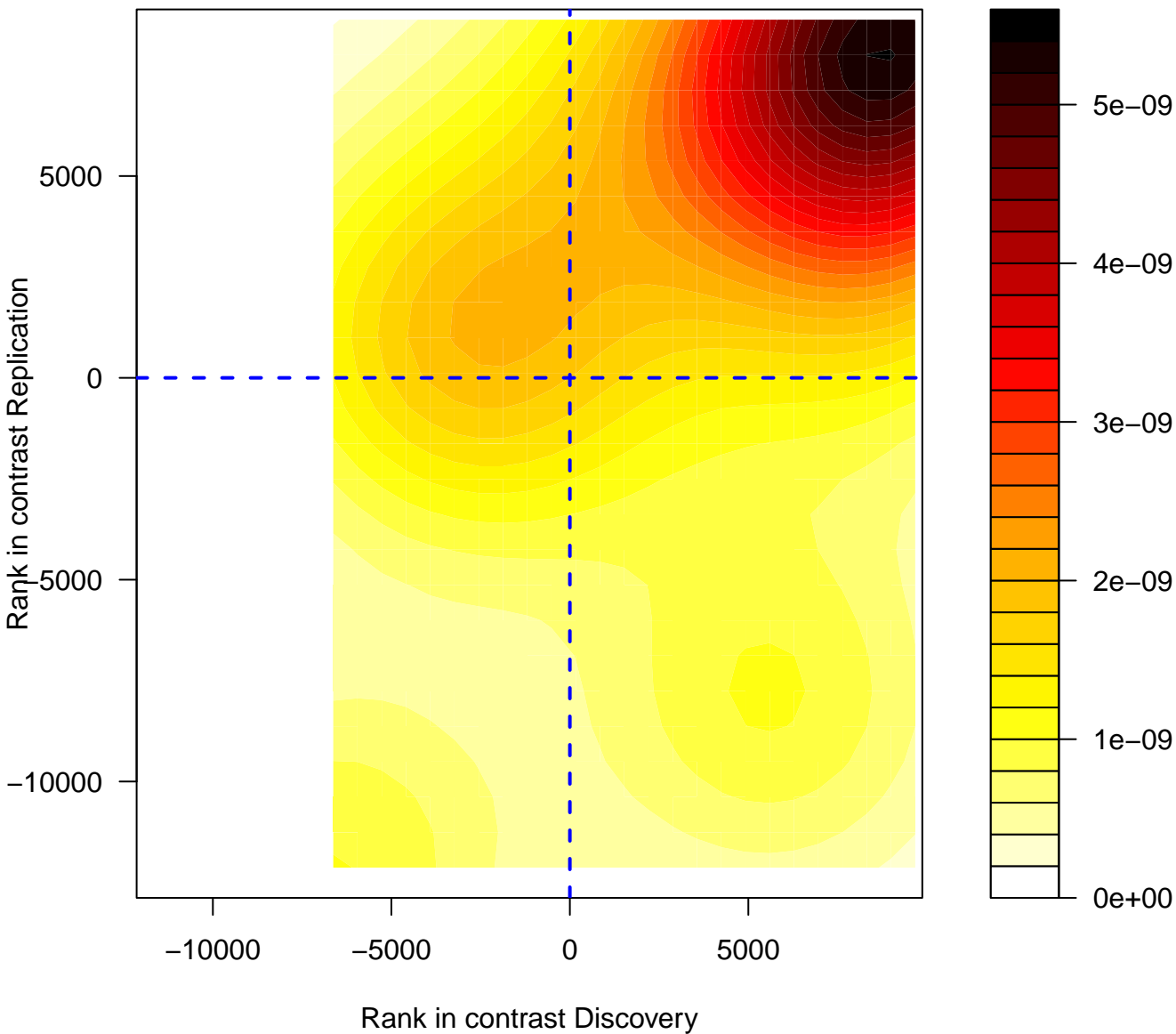
REACTOME_CIPROFLOXACIN_ADME



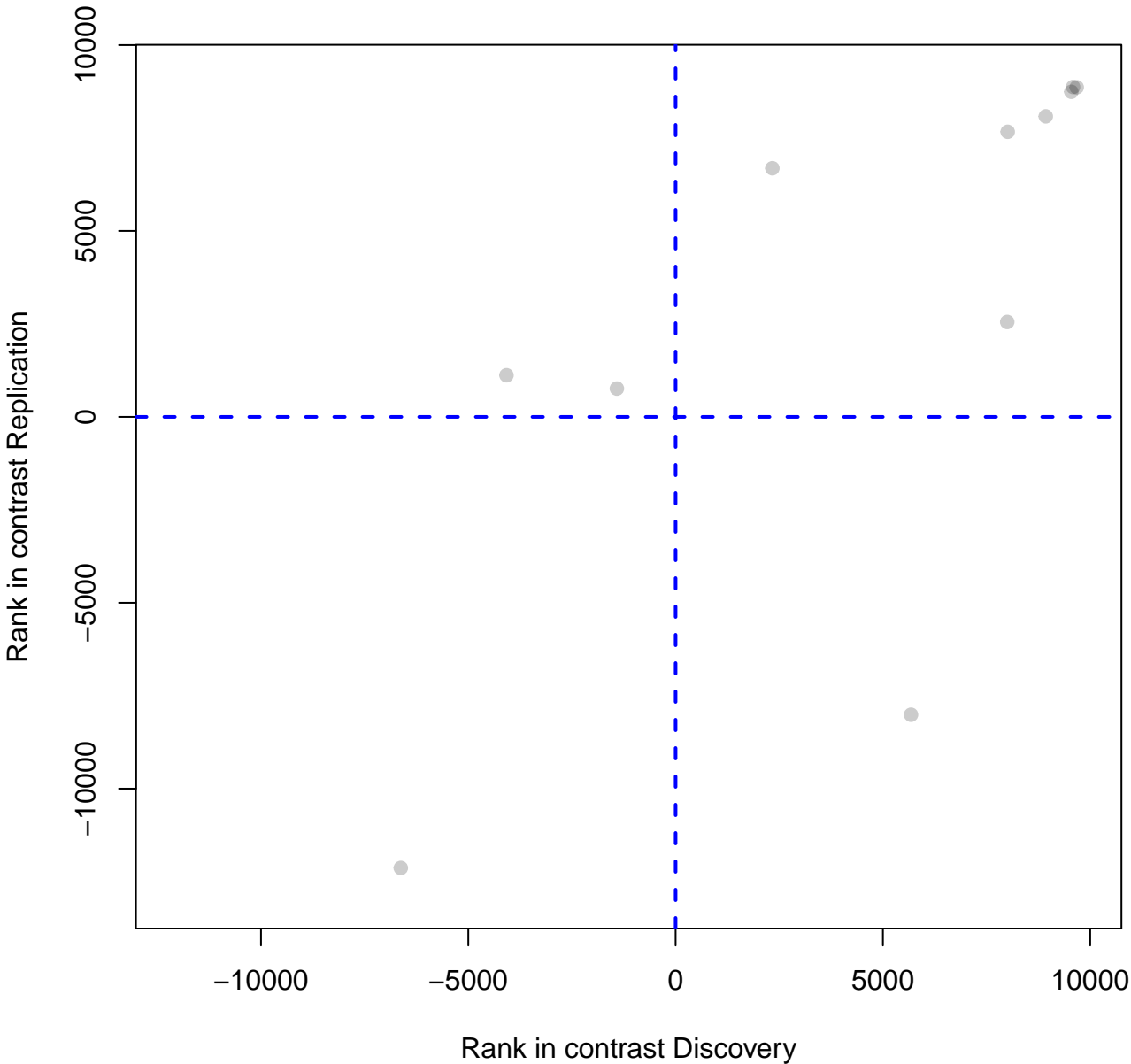
REACTOME_CIPROFLOXACIN_ADME



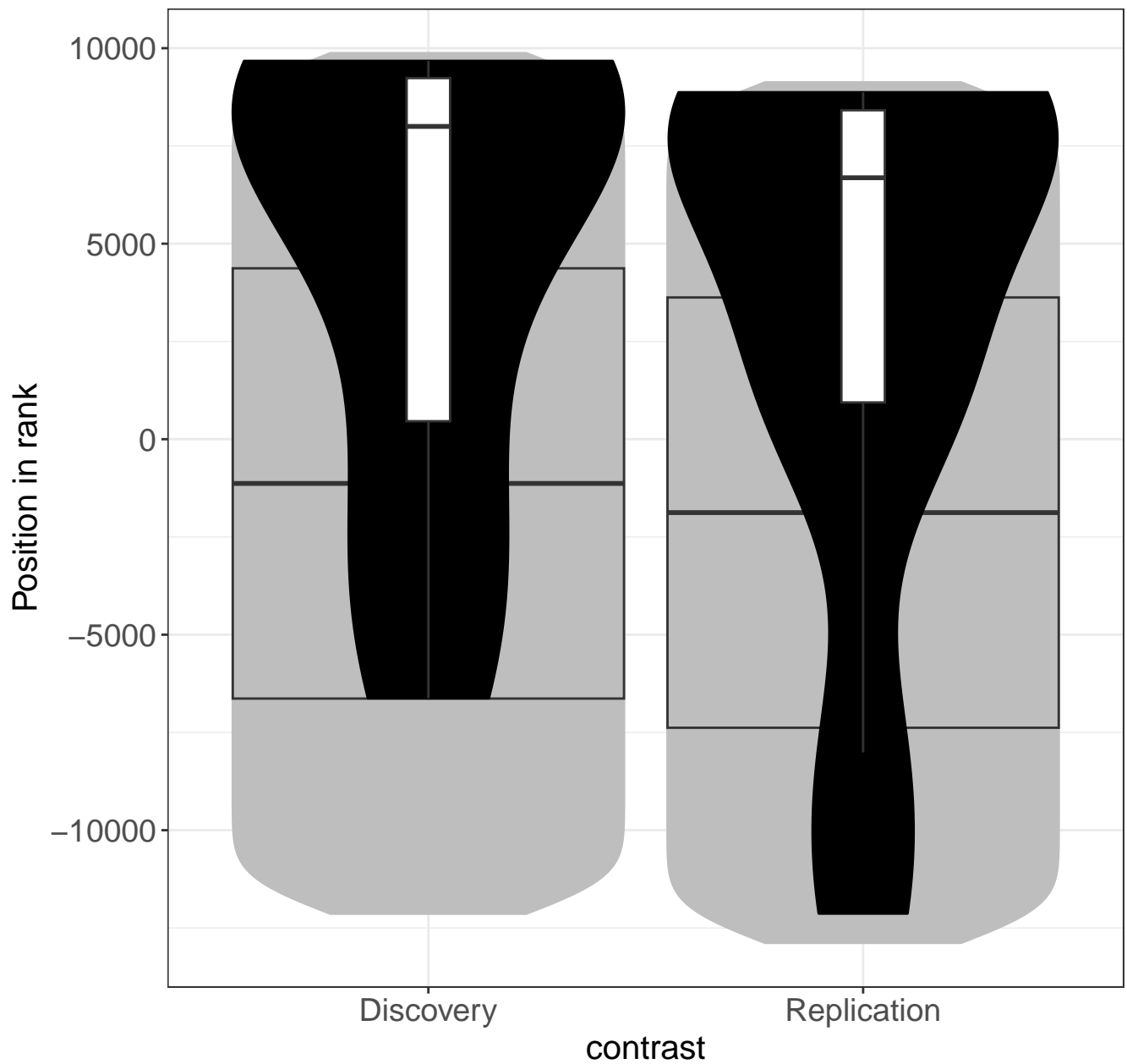
ACTIVATION_OF_THE_TFAP2_AP_2_FAMILY_OF_TRANSCR



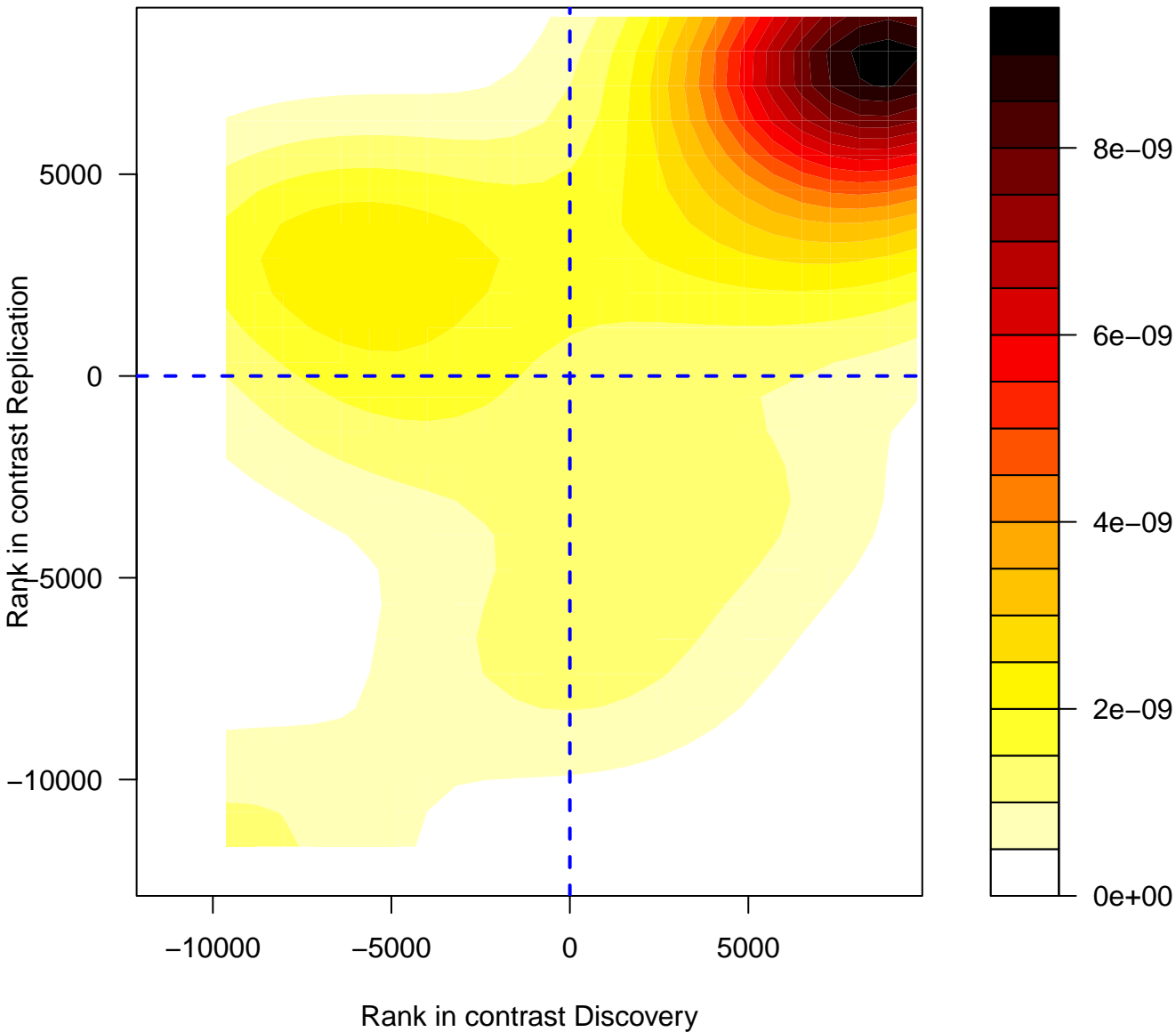
TOME_ACTIVATION_OF_THE_TFAP2_AP_2_FAMILY_OF_TRANSCRIPTION



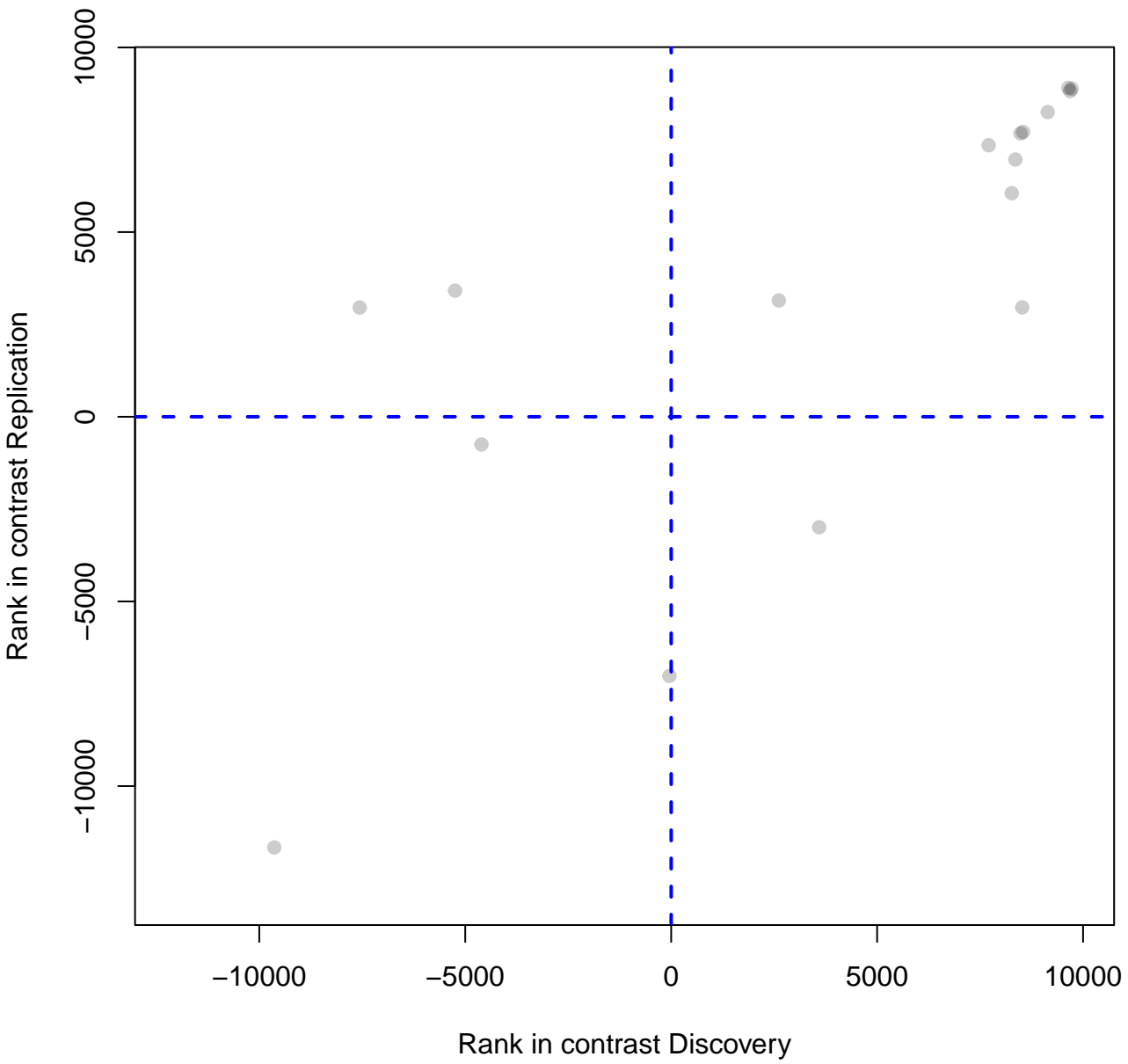
REACTOME_ACTIVATION_OF_THE_TFAP2_AP



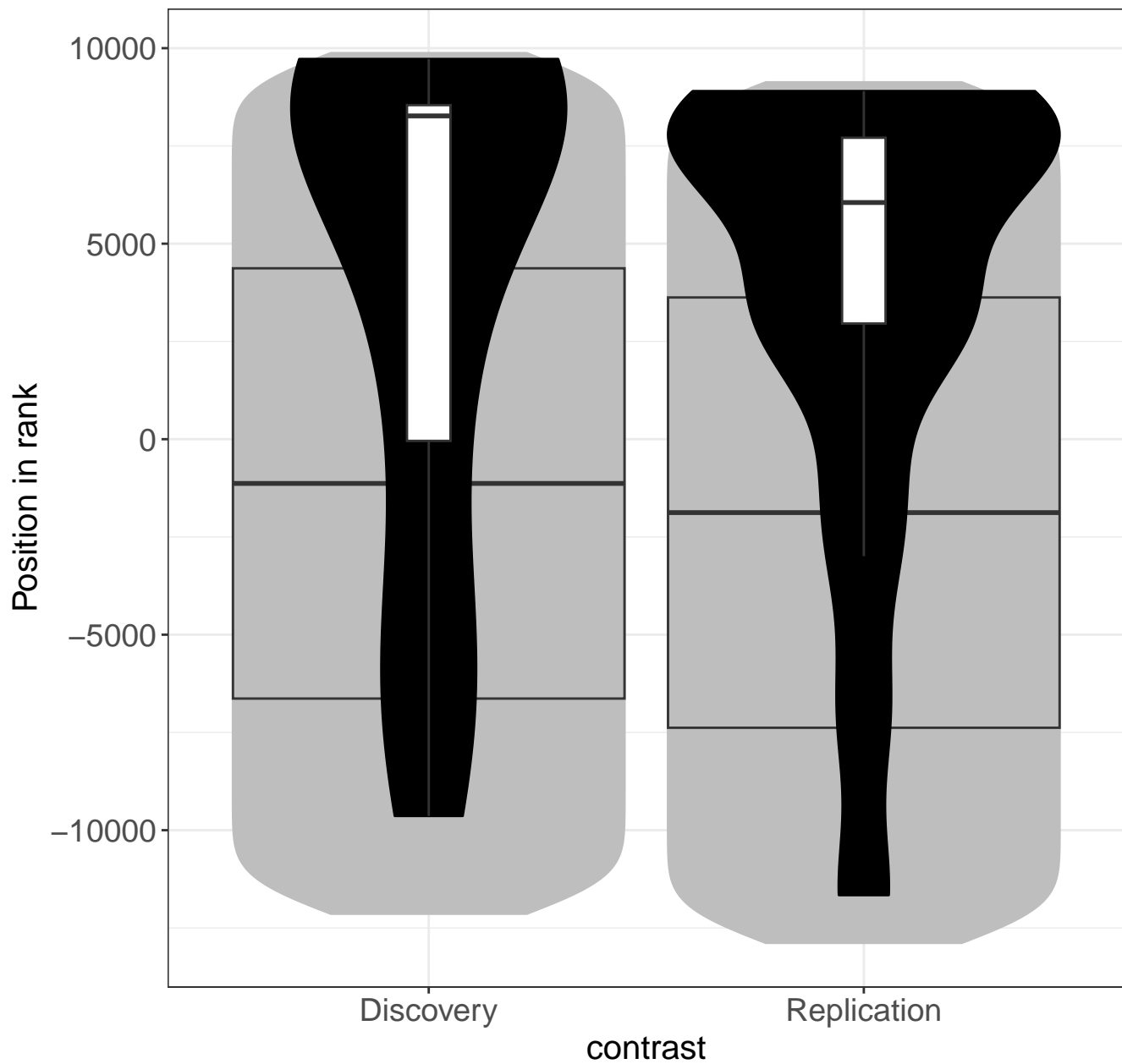
REACTOME_GERM_LAYER_FORMATION_AT_GASTRULAT



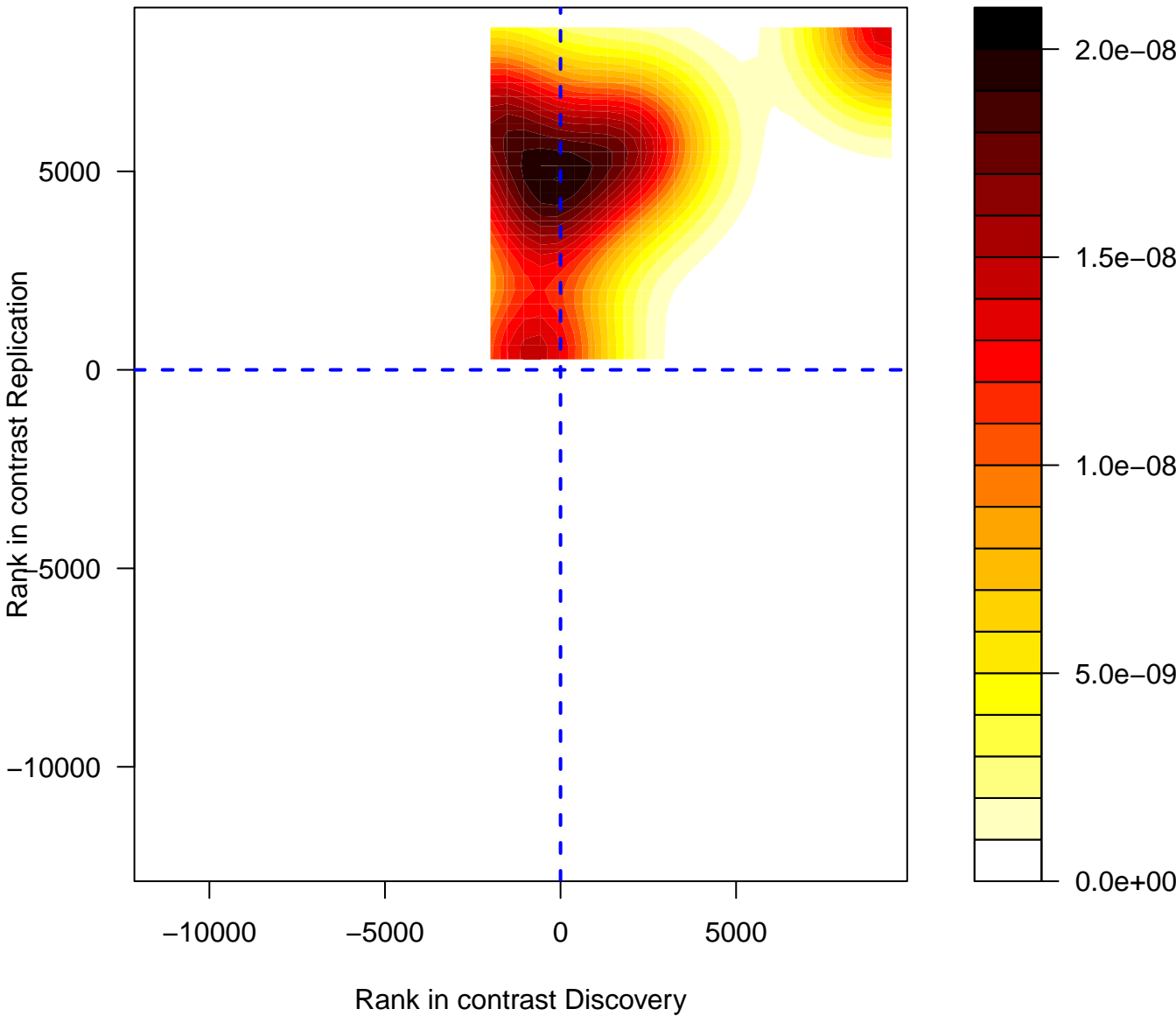
REACTOME_GERM_LAYER_FORMATION_AT_GASTRULATION



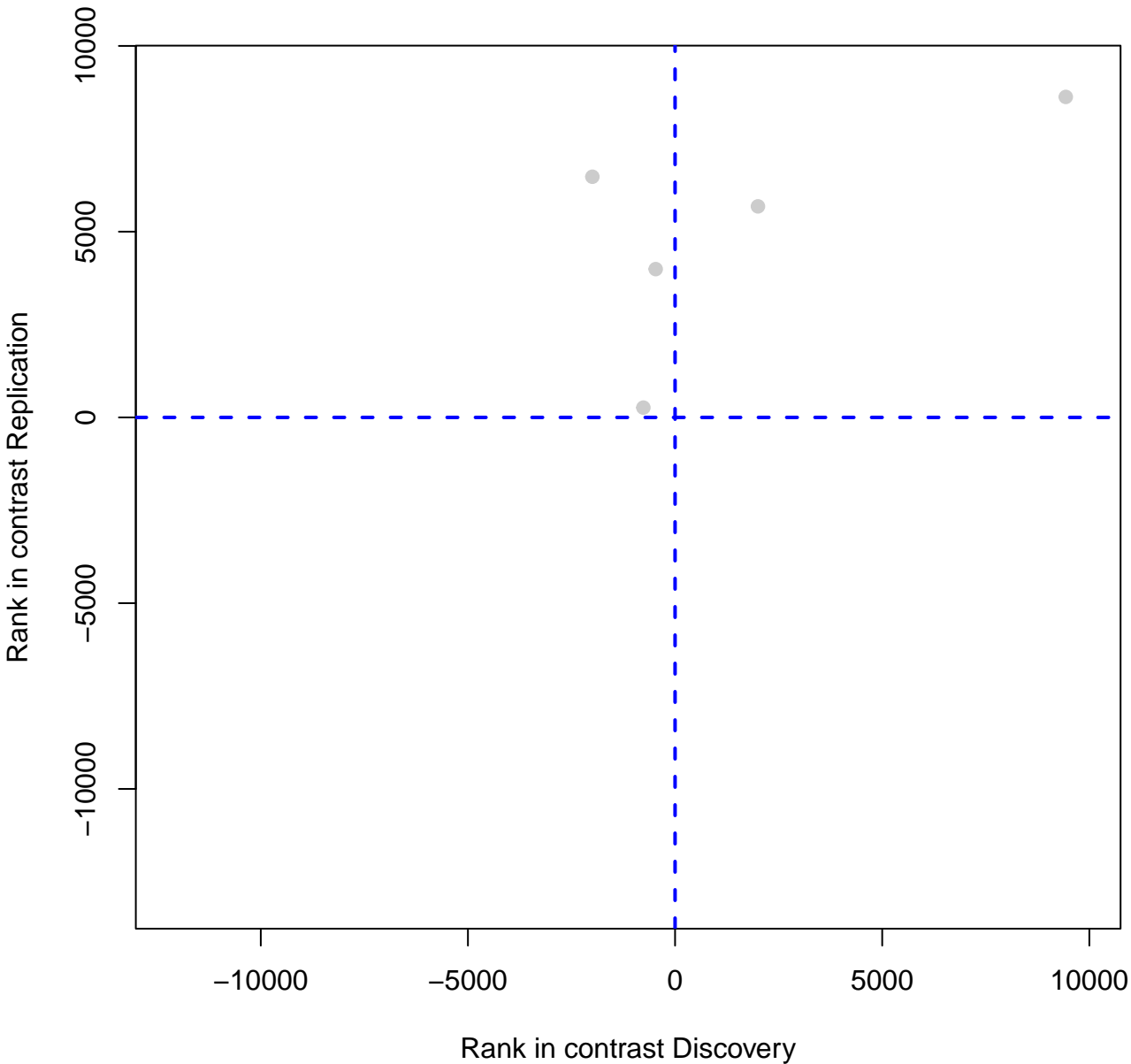
REACTOME_GERM_LAYER_FORMATION_AT_



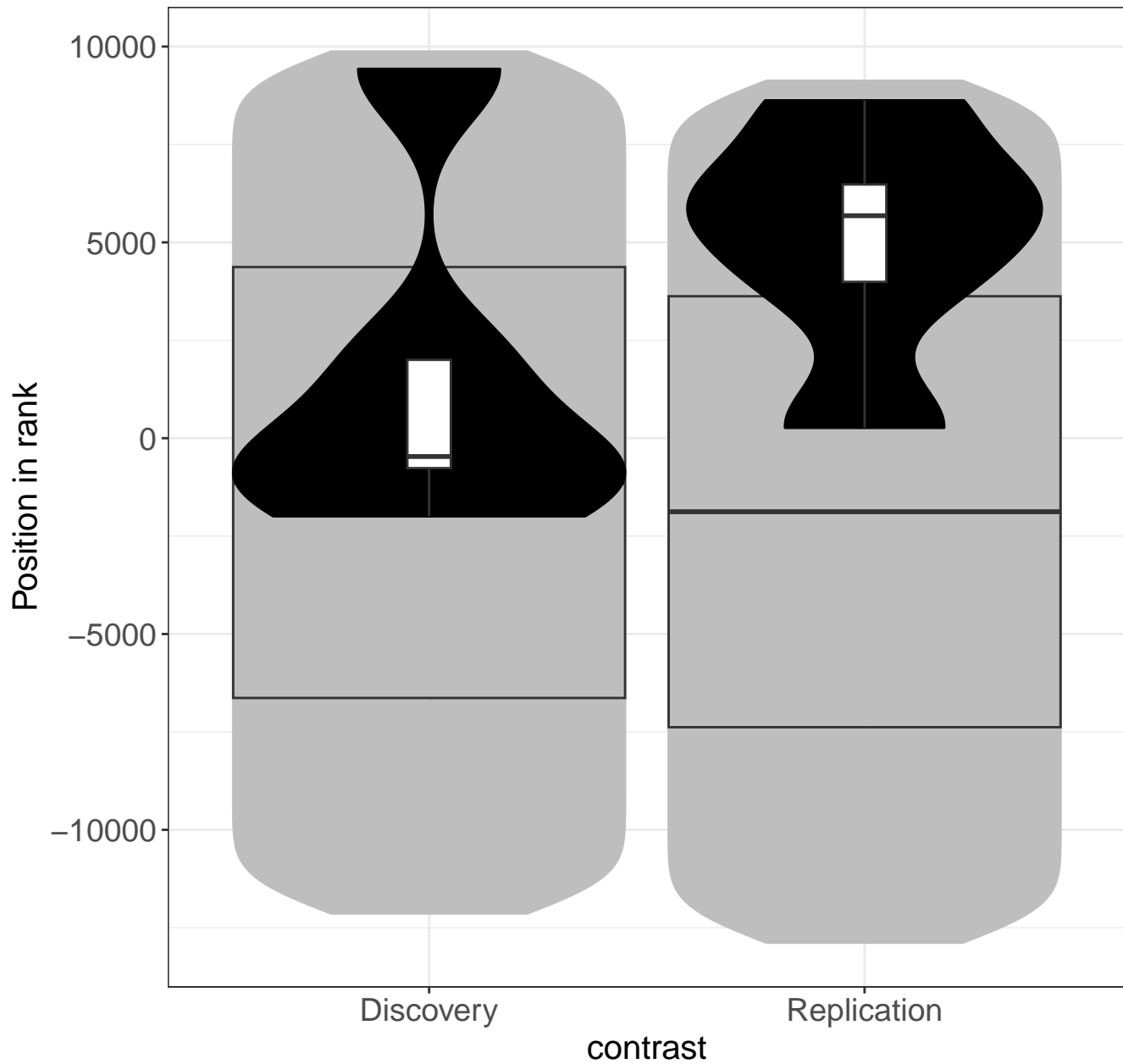
REACTOME_HDL_CLEARANCE



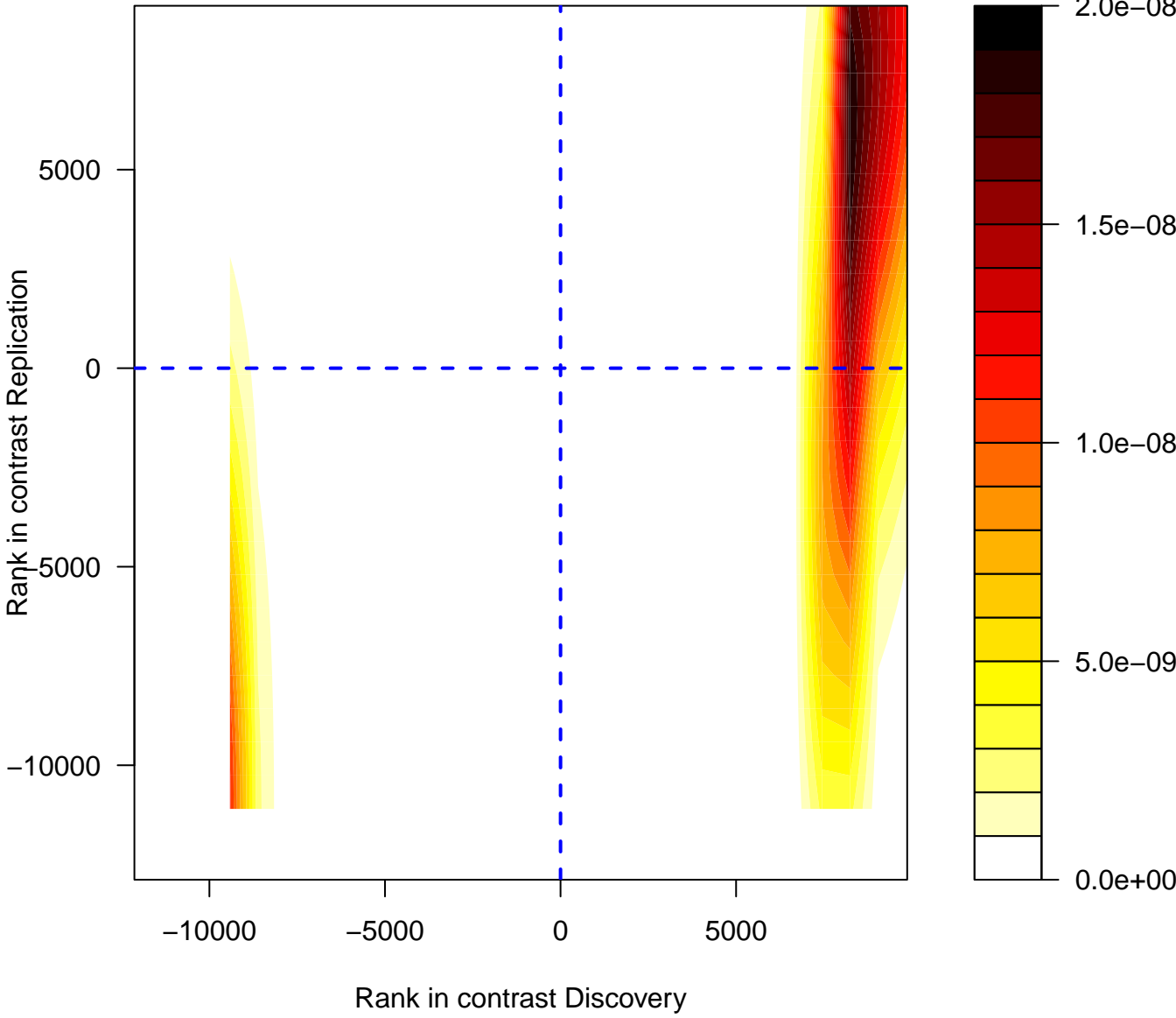
REACTOME_HDL_CLEARANCE



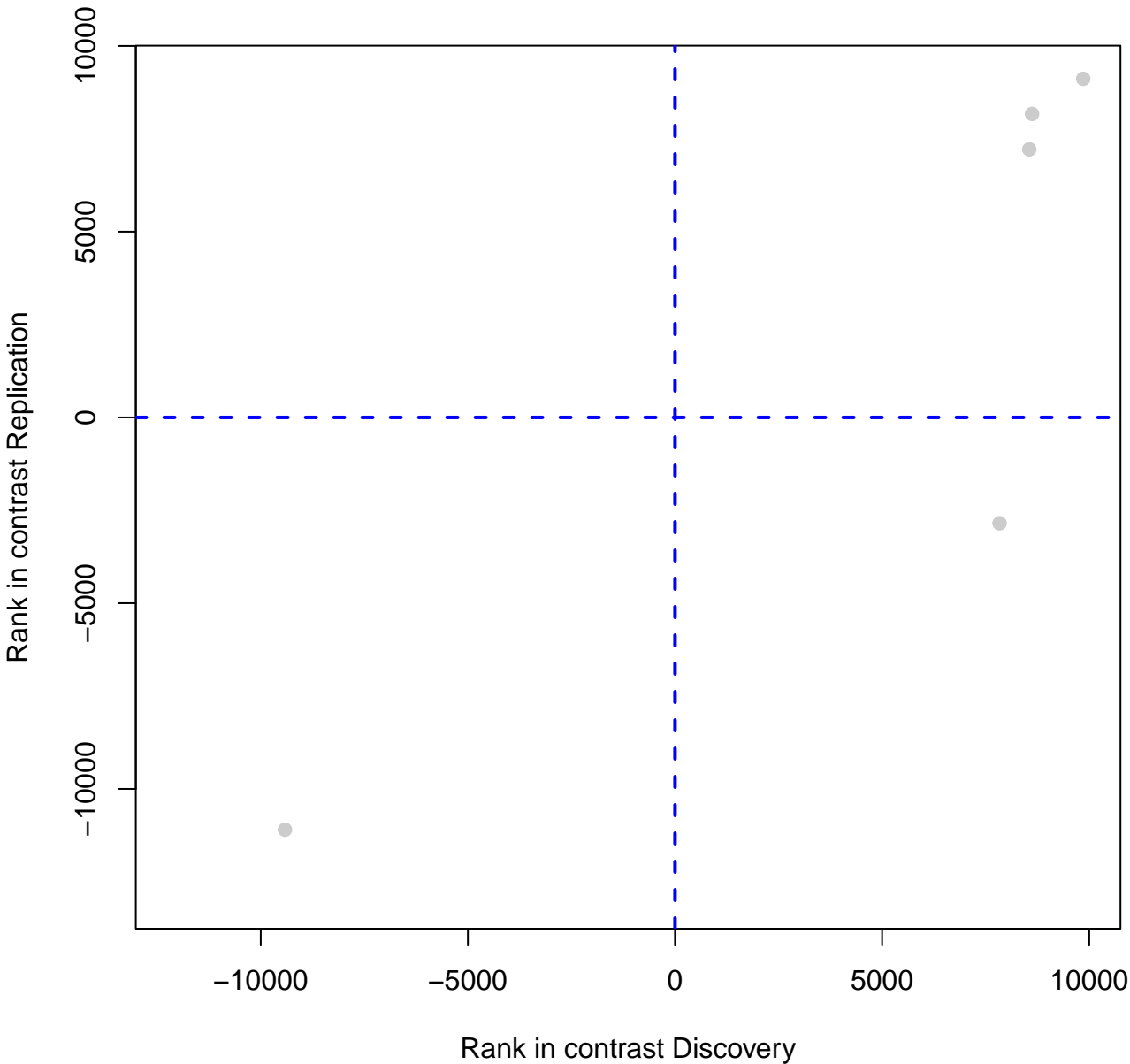
REACTOME_HDL_CLEARANCE



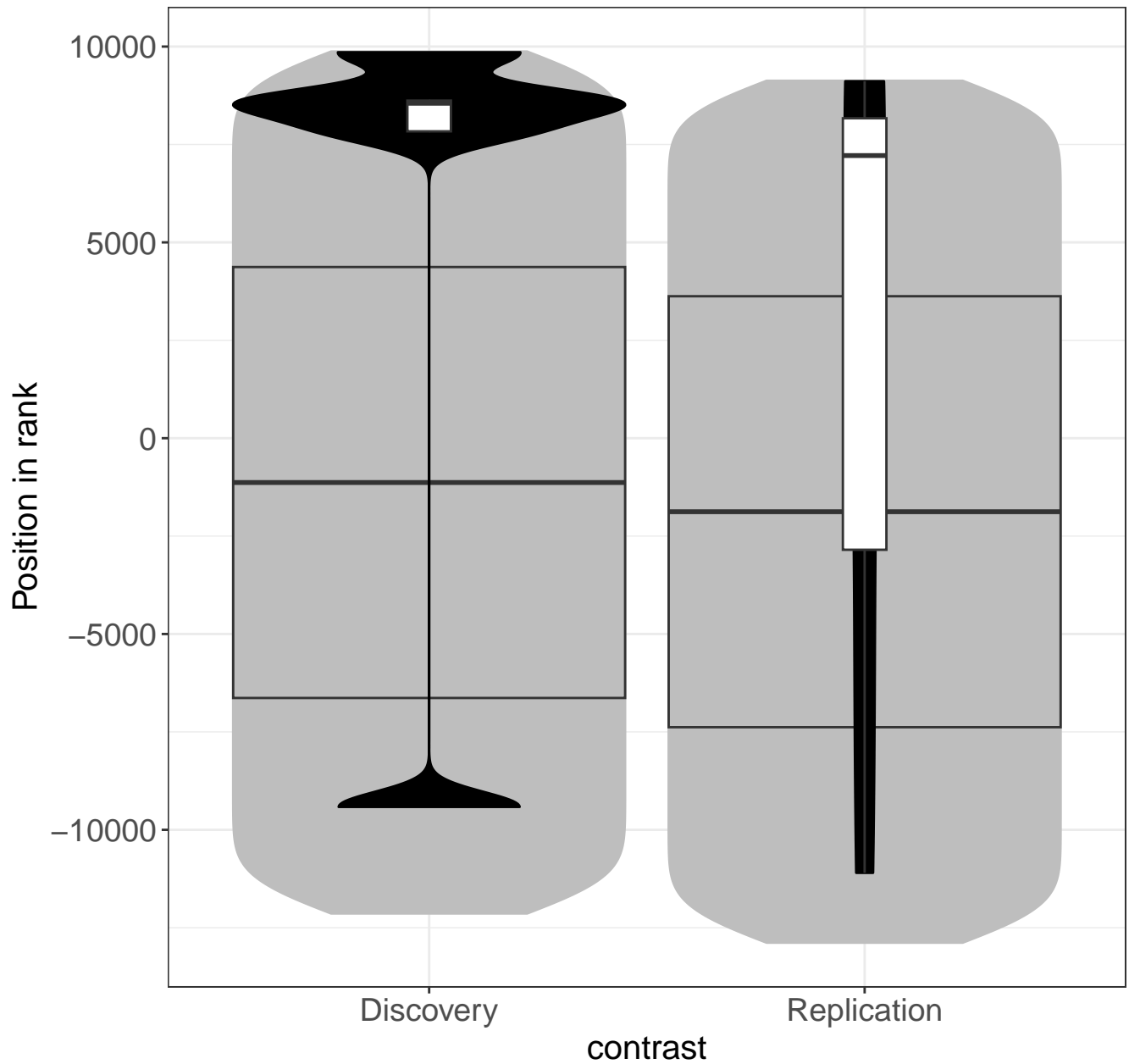
REACTOME_VASOPRESSIN_LIKE_RECEPTORS



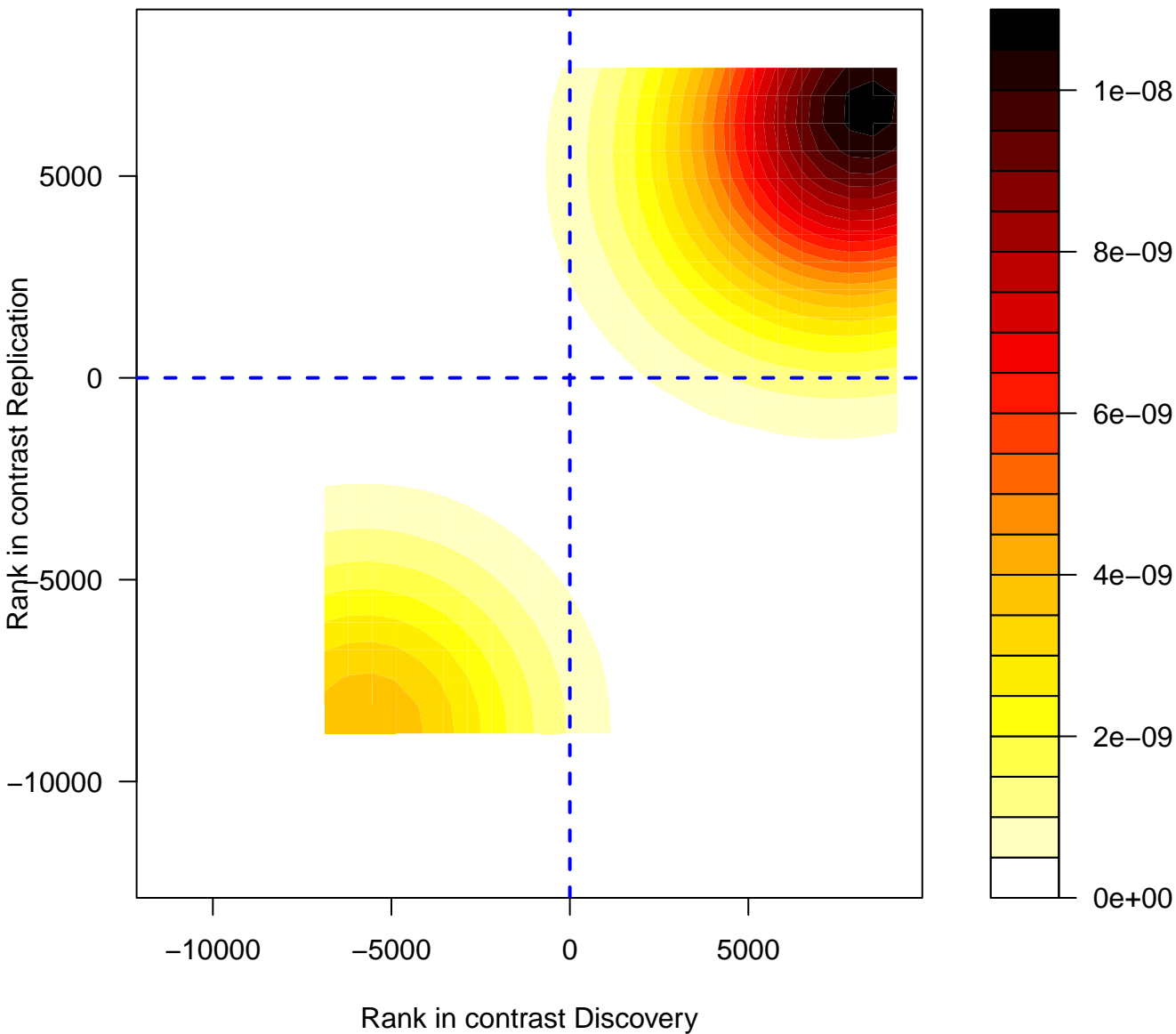
REACTOME_VASOPRESSIN_LIKE_RECEPTORS



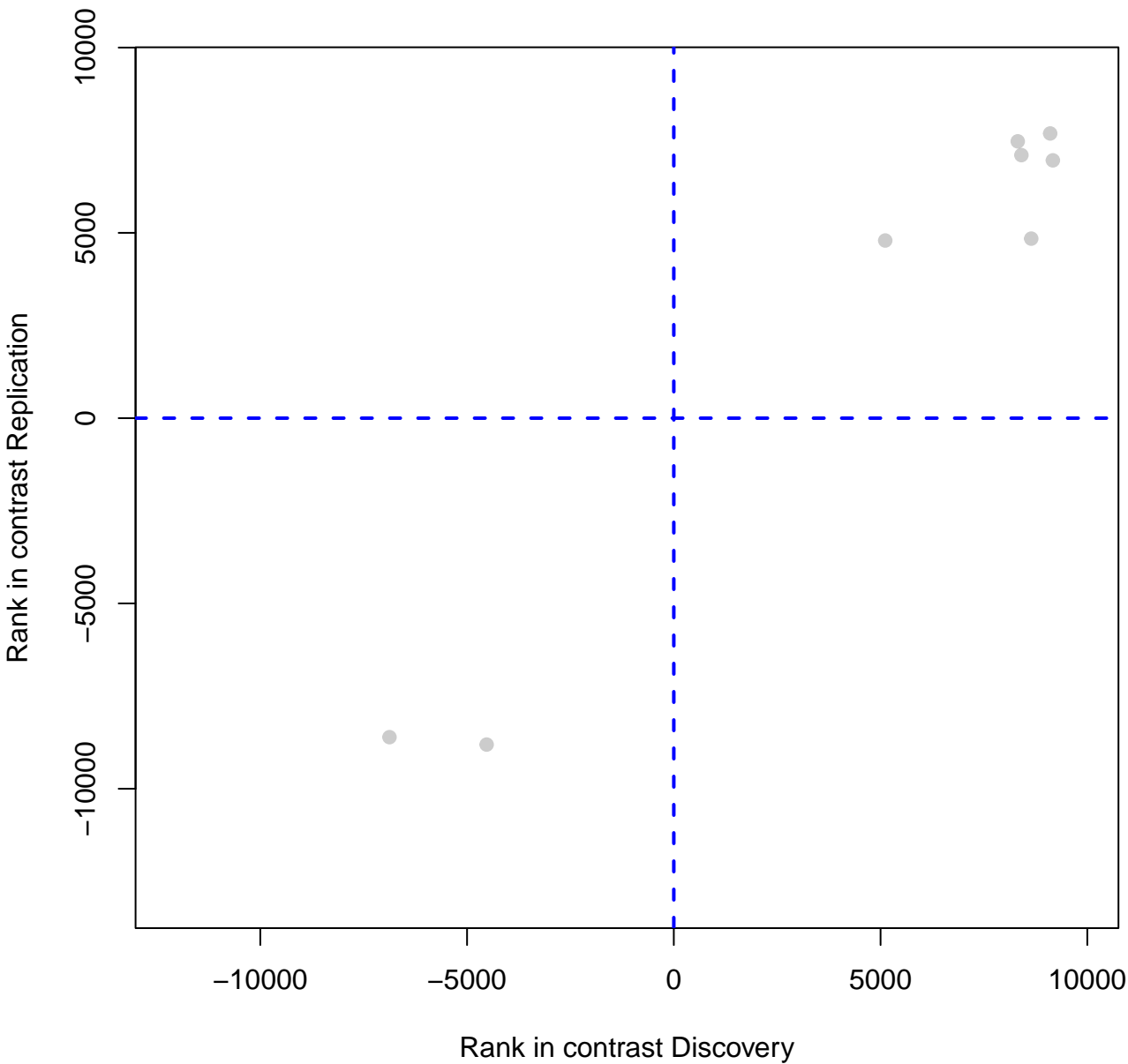
REACTOME_VASOPRESSIN_LIKE_RECEPTOR



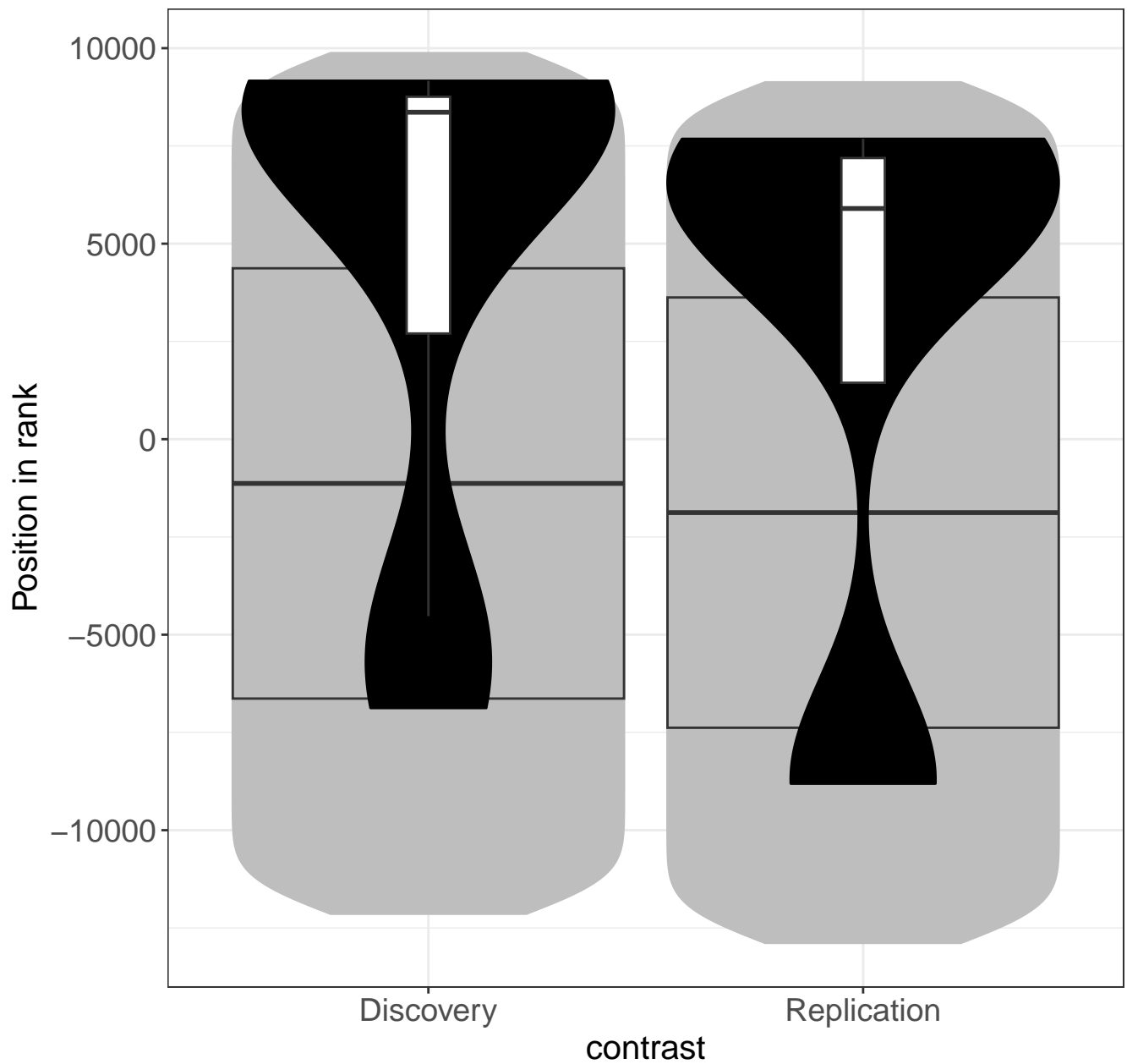
REACTOME_LIGAND_RECEPTOR_INTERACTIONS



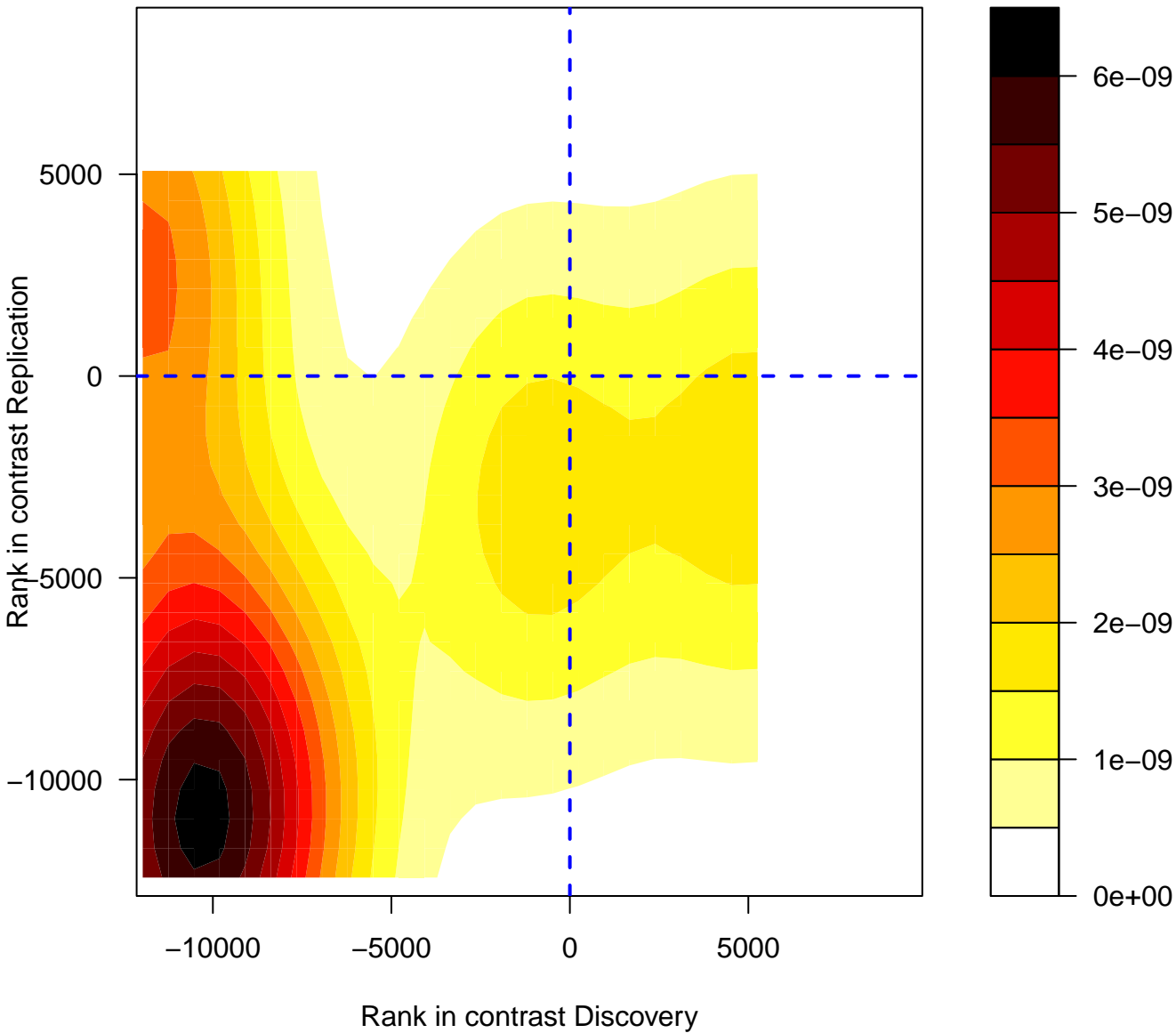
REACTOME_LIGAND_RECEPTOR_INTERACTIONS



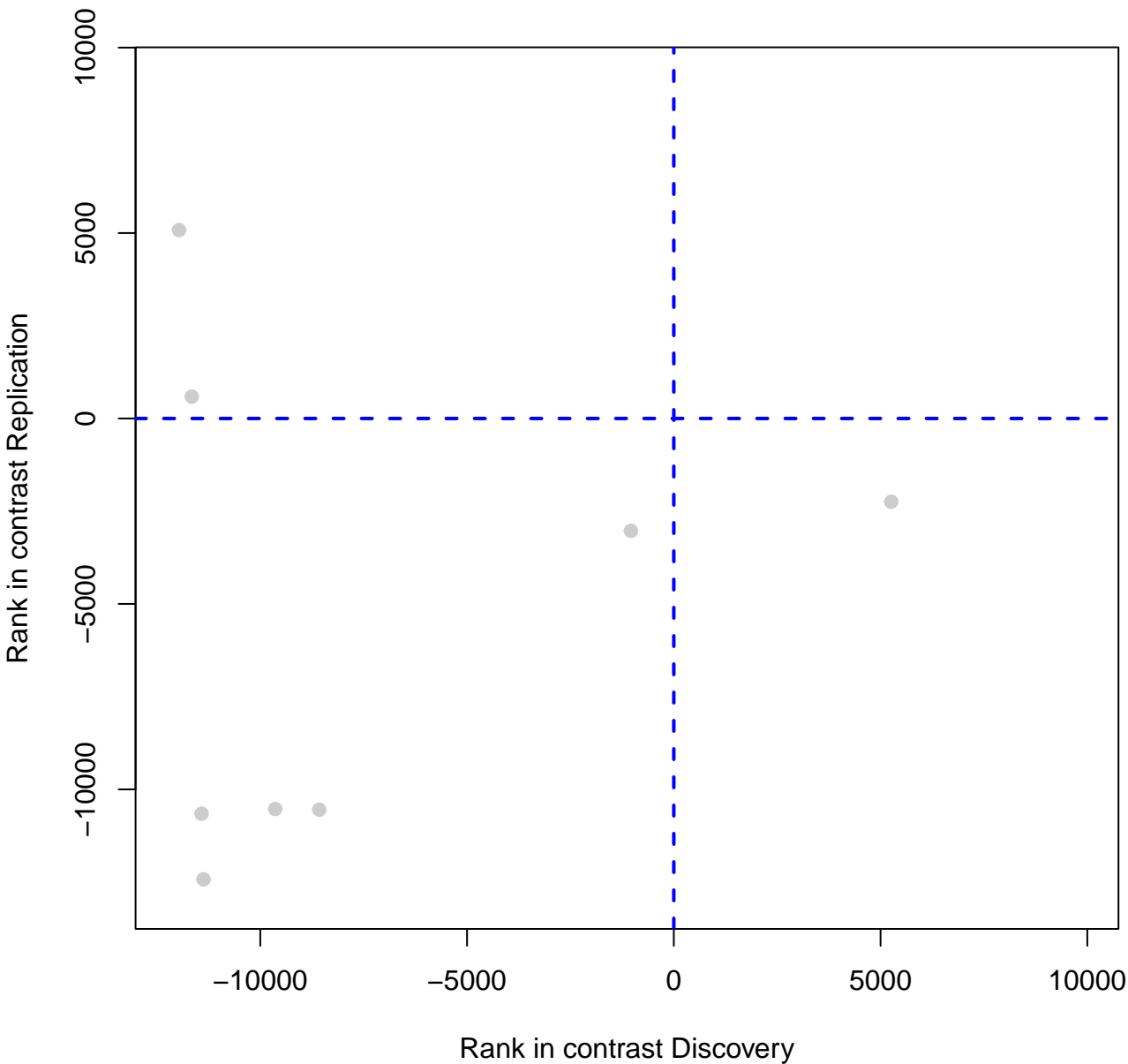
REACTOME_LIGAND_RECEPTOR_INTERACT



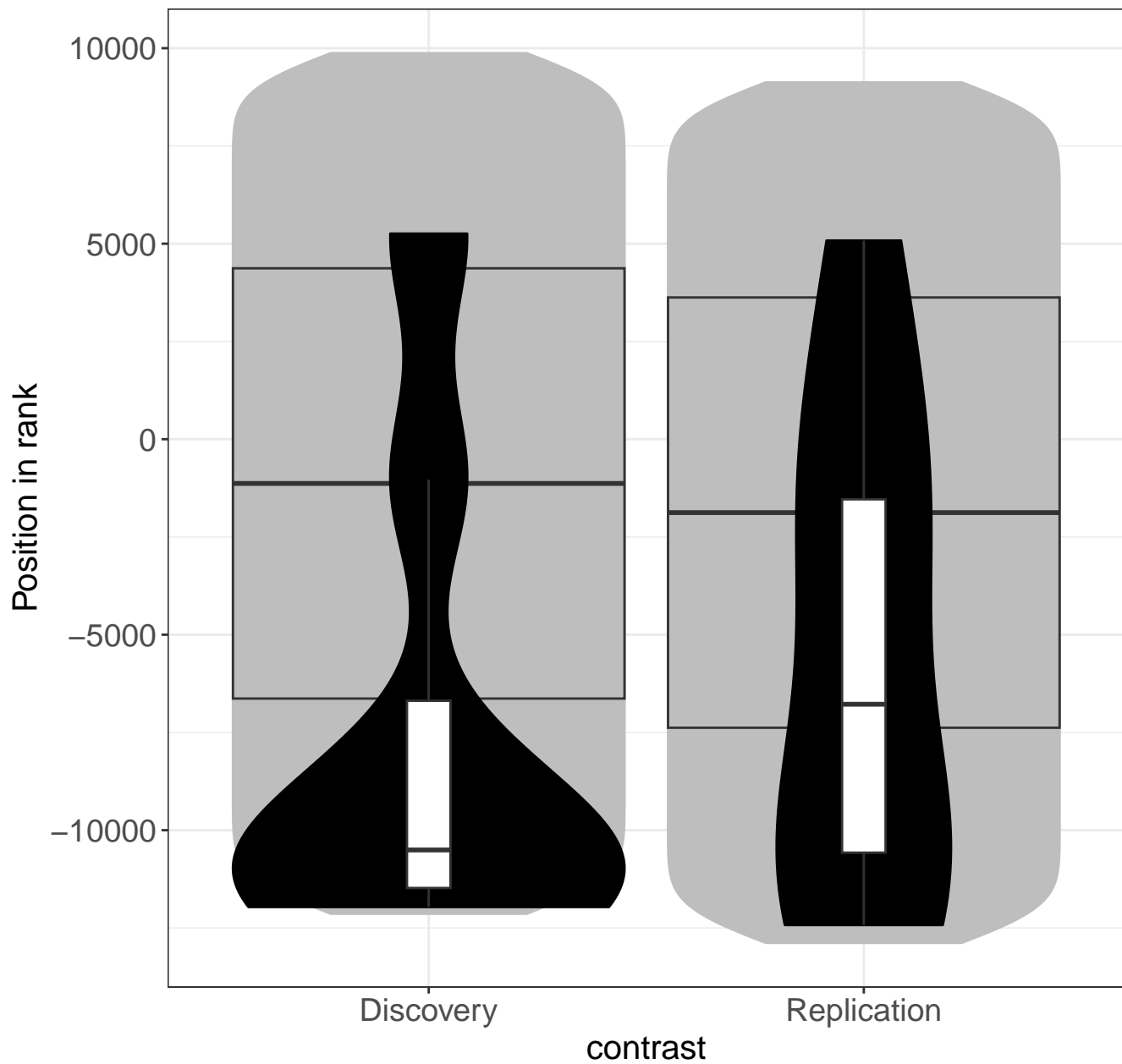
REACTOME_DEFECTIVE_B4GALT1_CAUSES_B4GALT1_CDG_



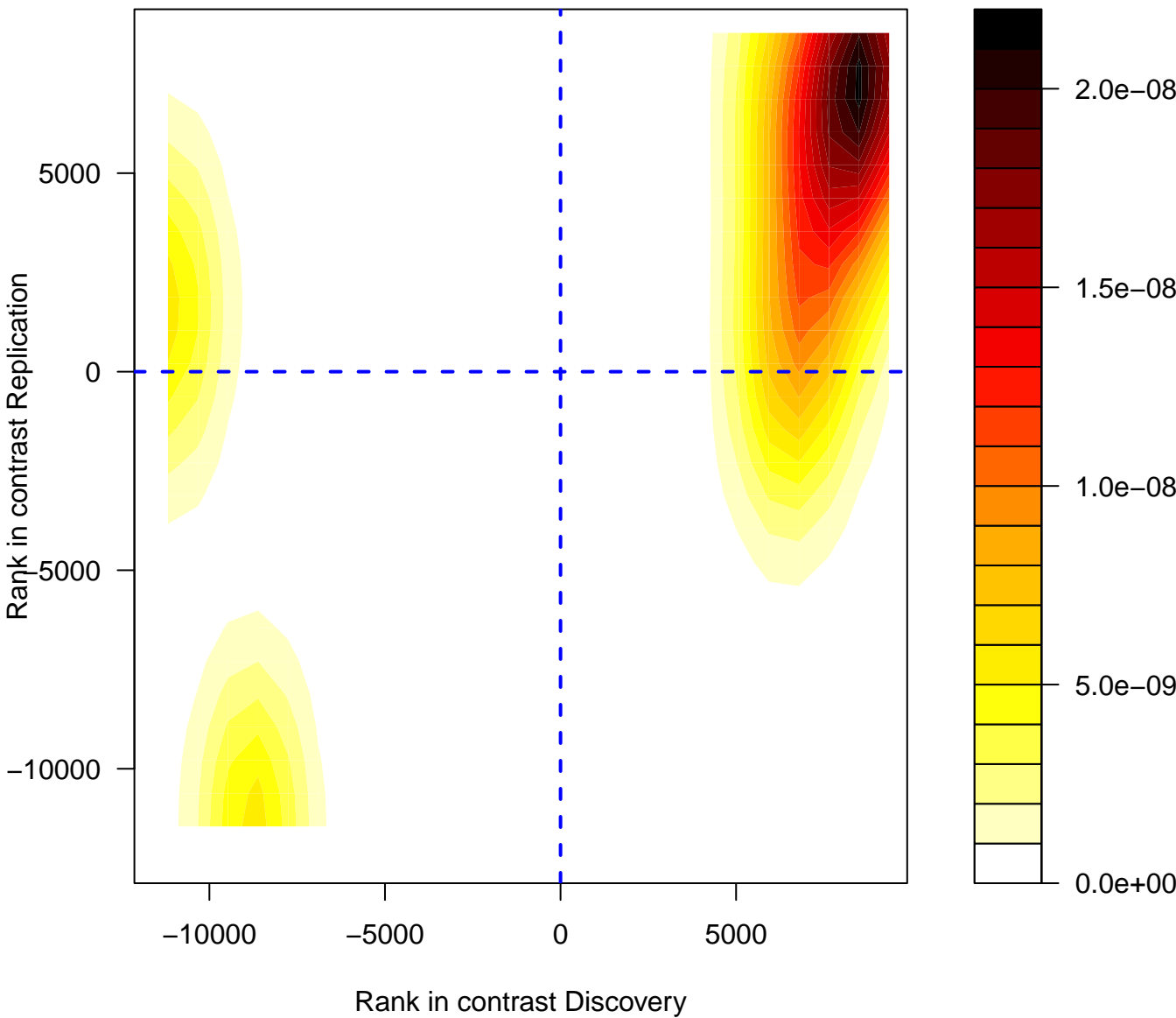
REACTOME_DEFECTIVE_B4GALT1_CAUSES_B4GALT1_CDG_CDG_2D



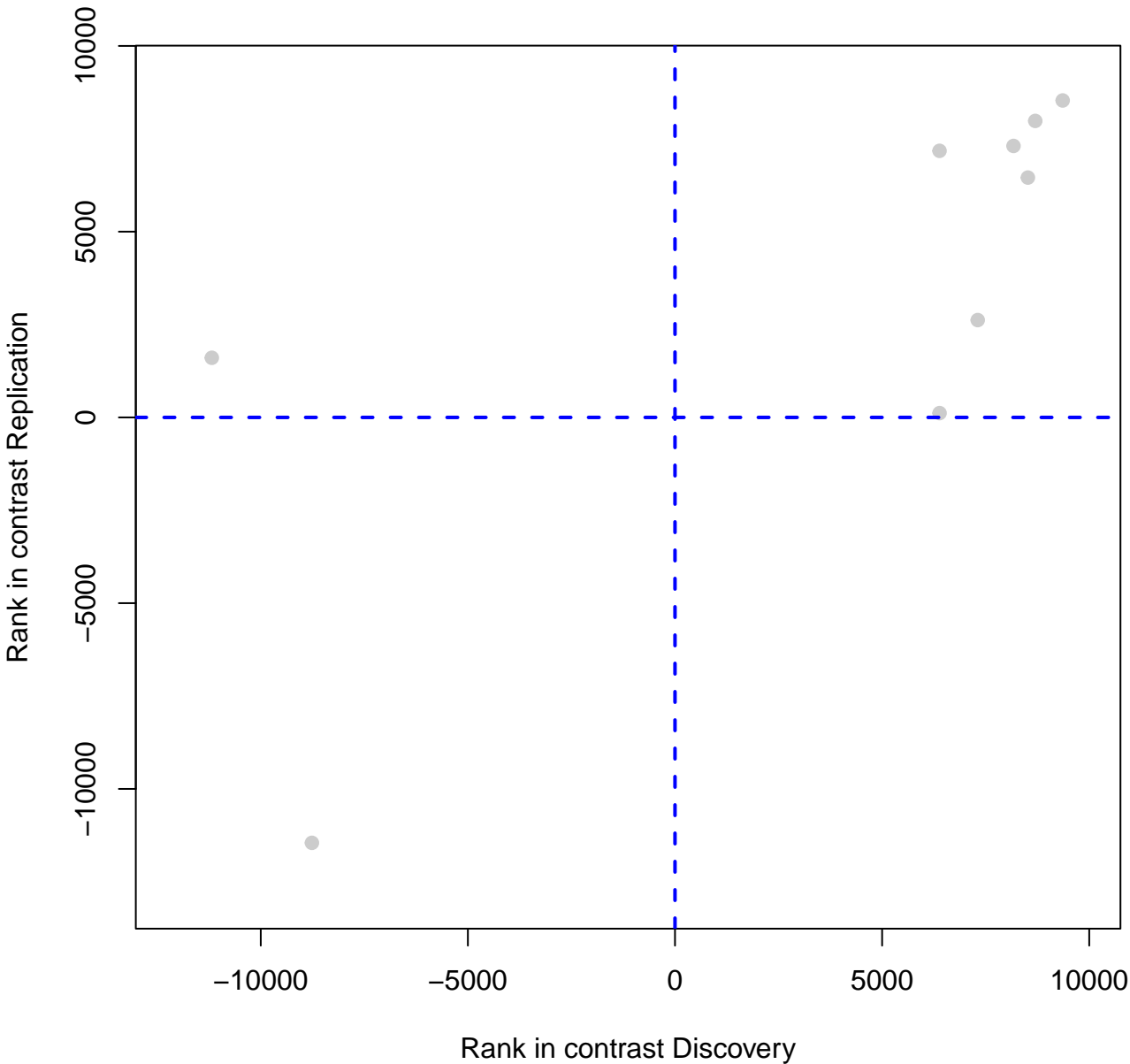
REACTOME_DEFECTIVE_B4GALT1_CAUSES_



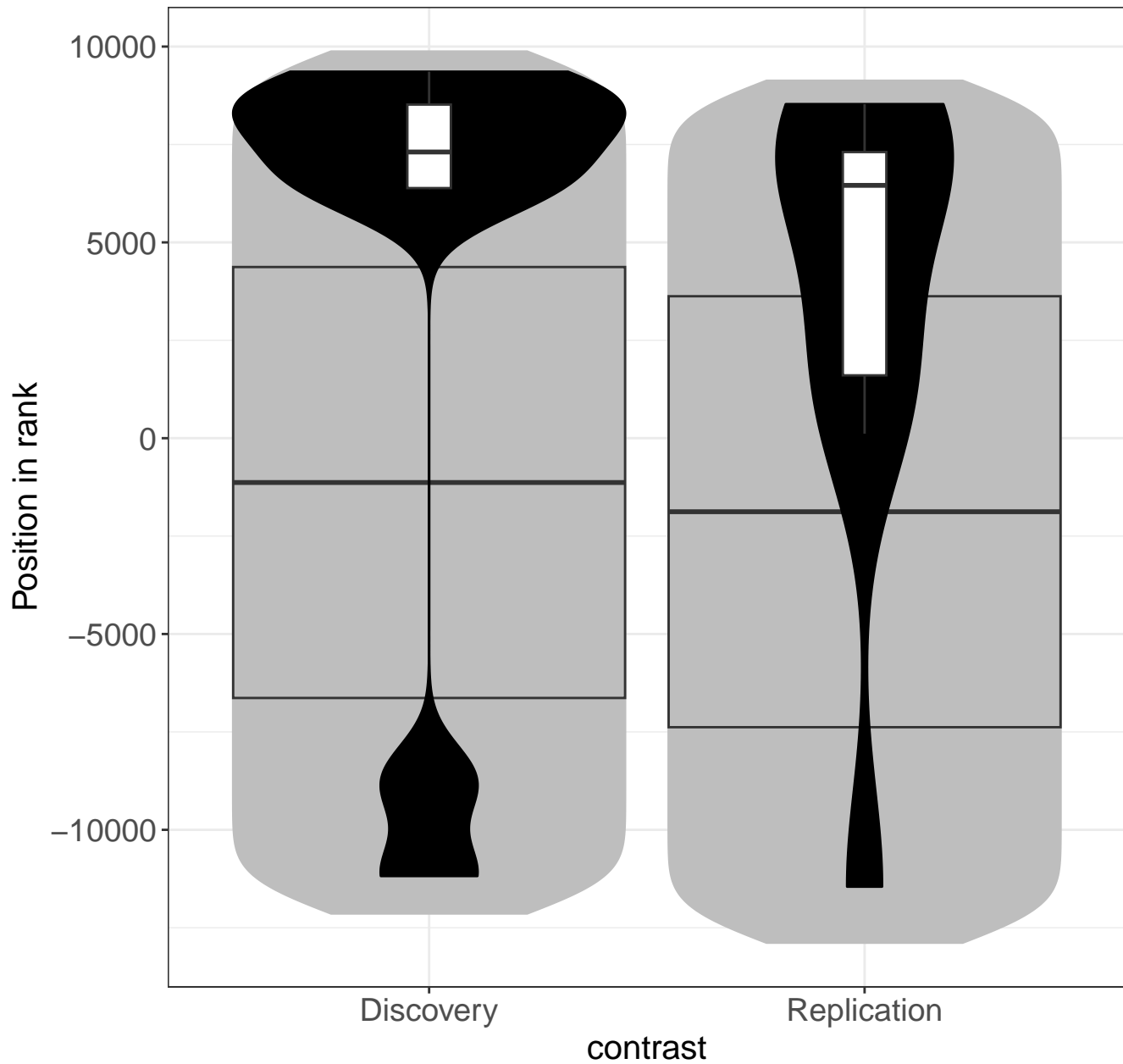
REACTOME_CREATINE_METABOLISM



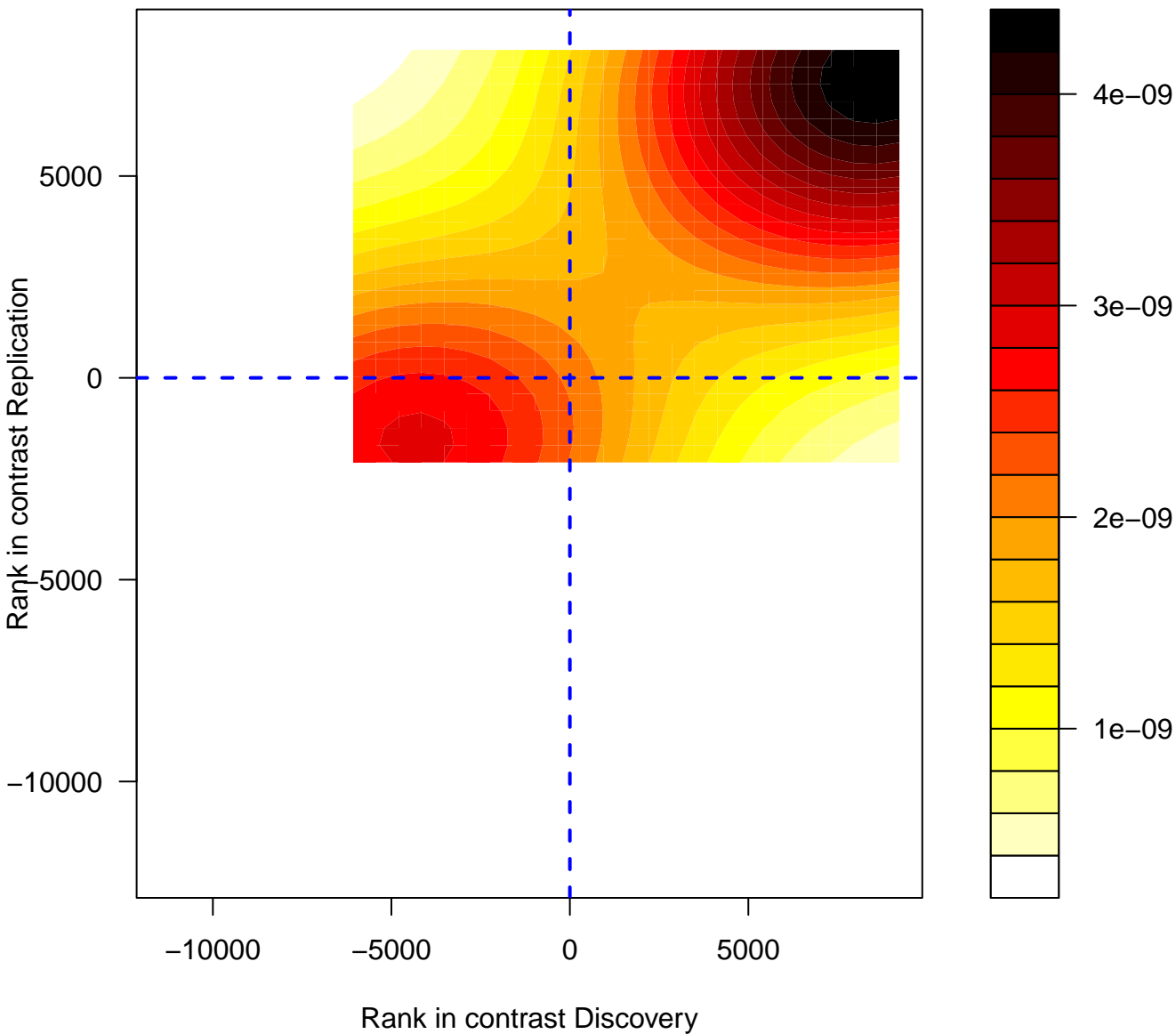
REACTOME_CREATINE_METABOLISM



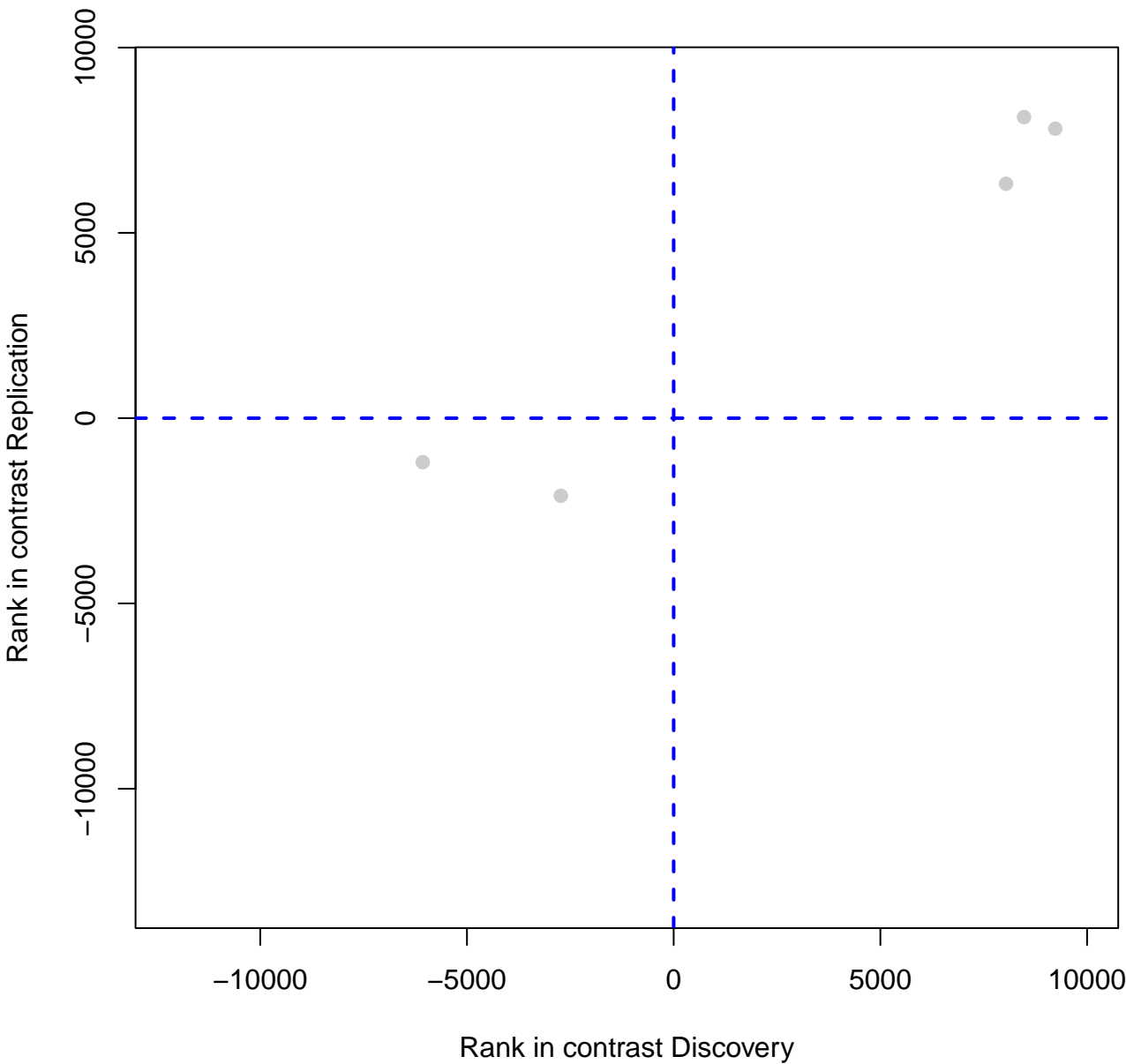
REACTOME_CREATINE_METABOLISM



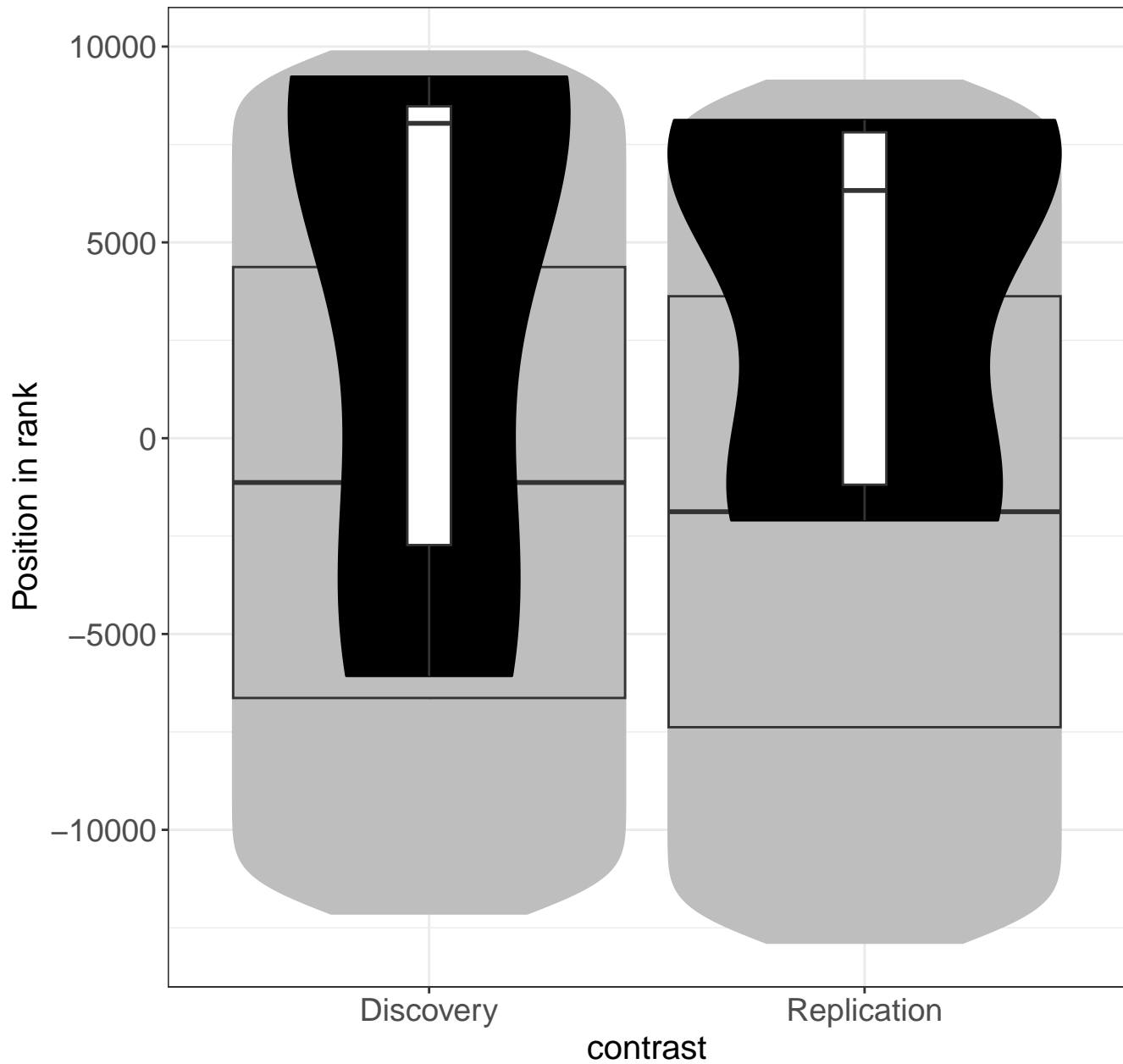
OME_SARS_COV_2_TARGETS_PDZ_PROTEINS_IN_CELL_CE



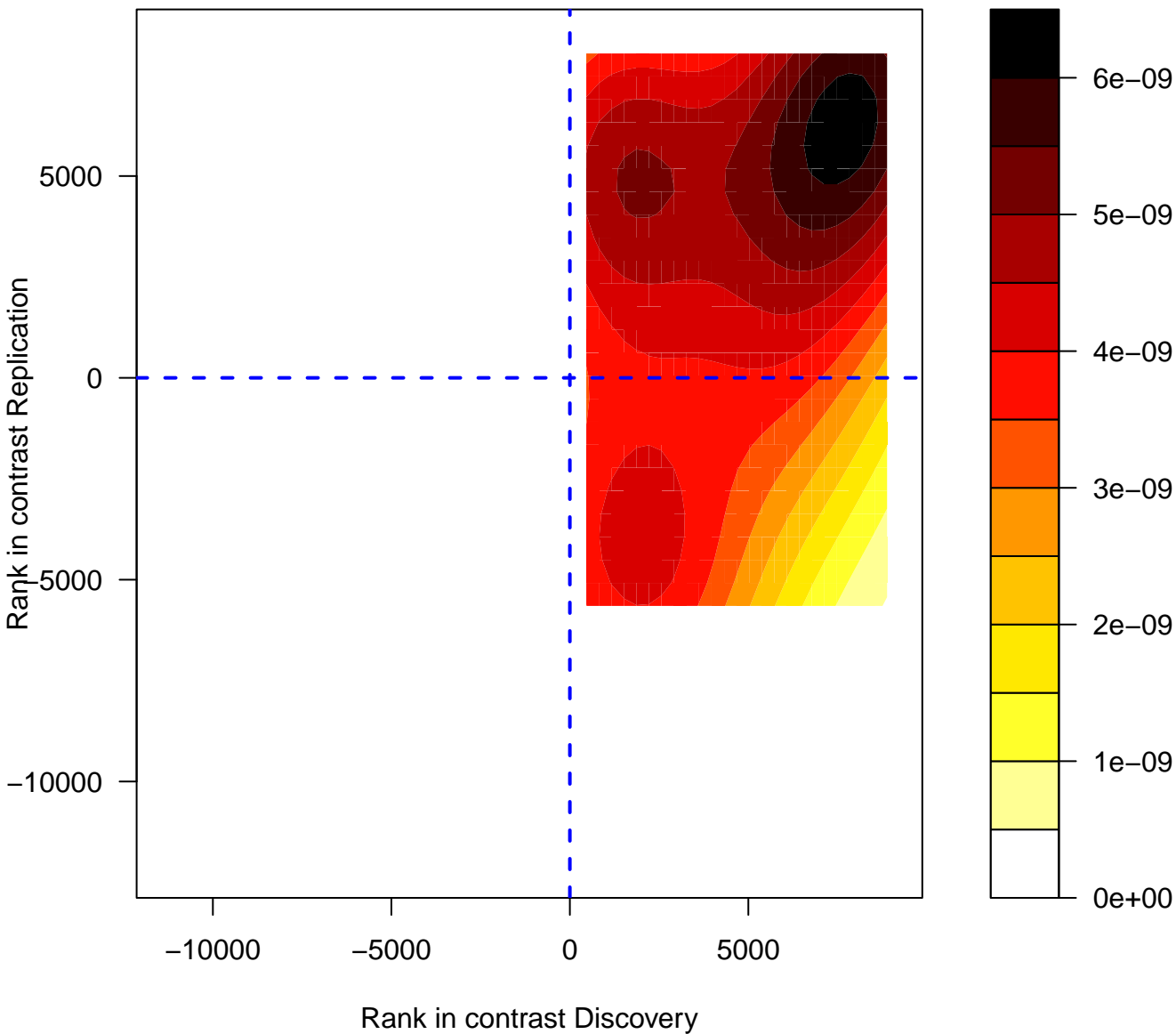
EACTOME_SARS_COV_2_TARGETS_PDZ_PROTEINS_IN_CELL_CELL_JUNC



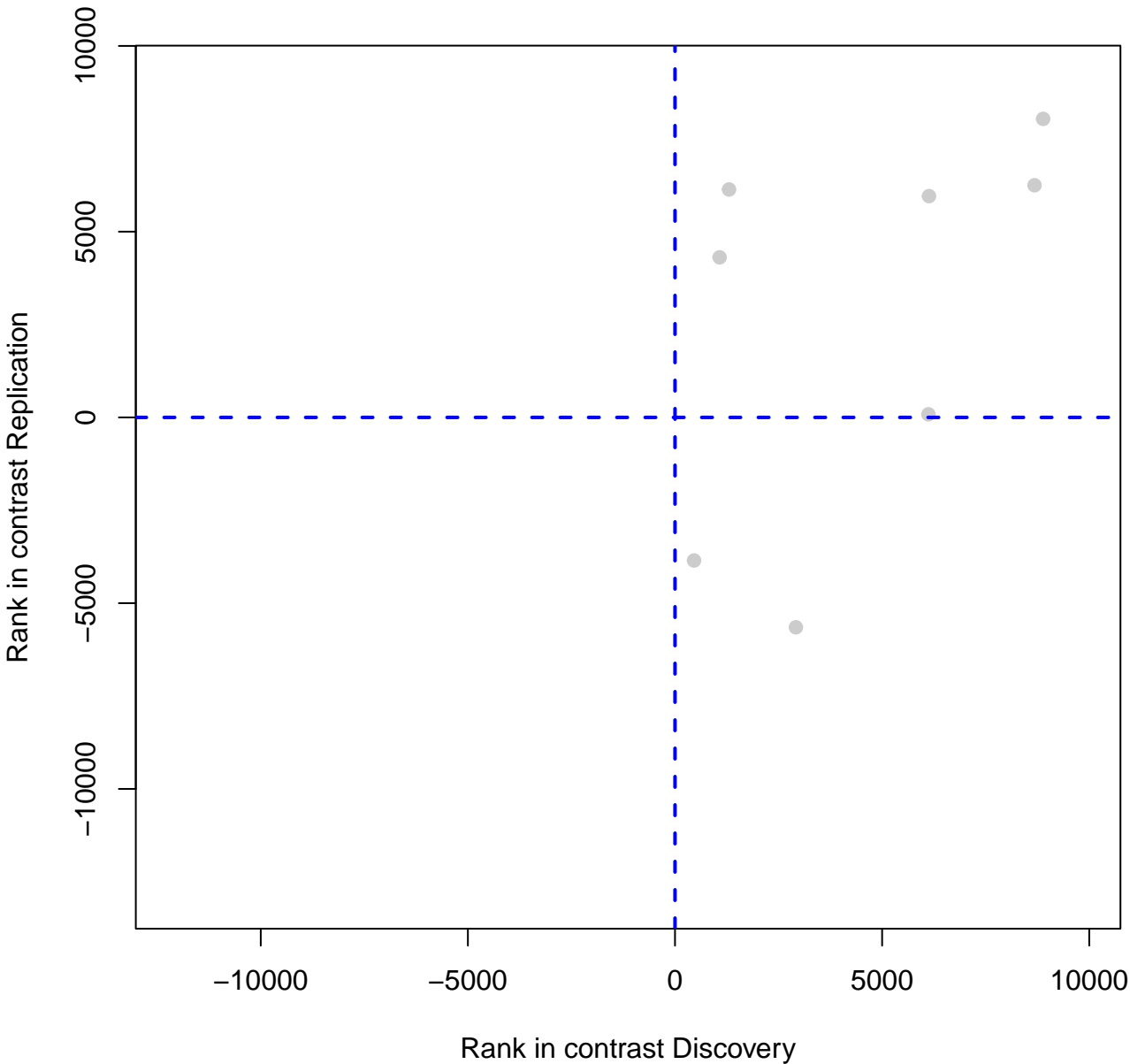
REACTOME_SARS_COV_2_TARGETS_PDZ_P



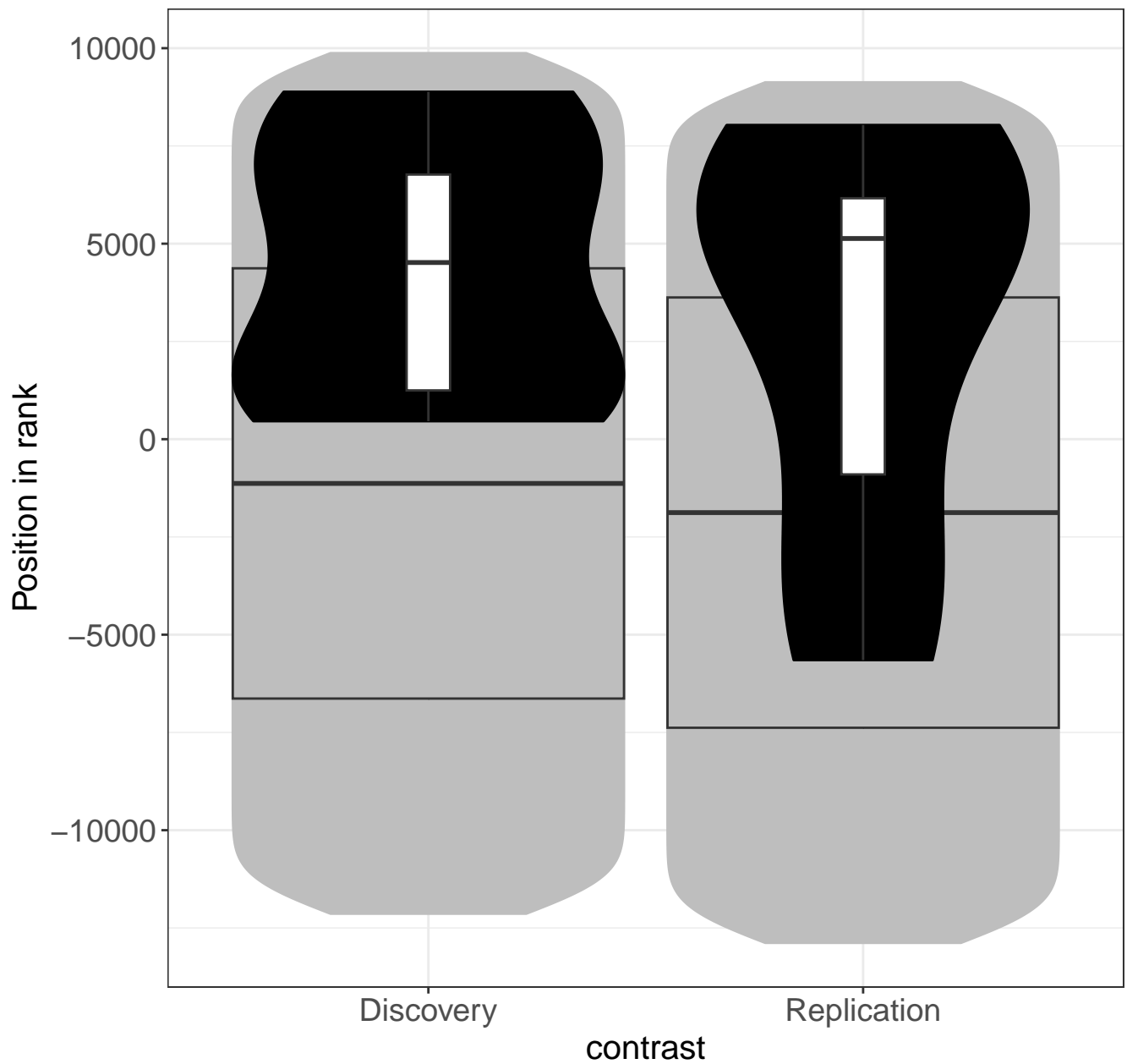
REACTOME_NEF_AND_SIGNAL_TRANSDUCTION



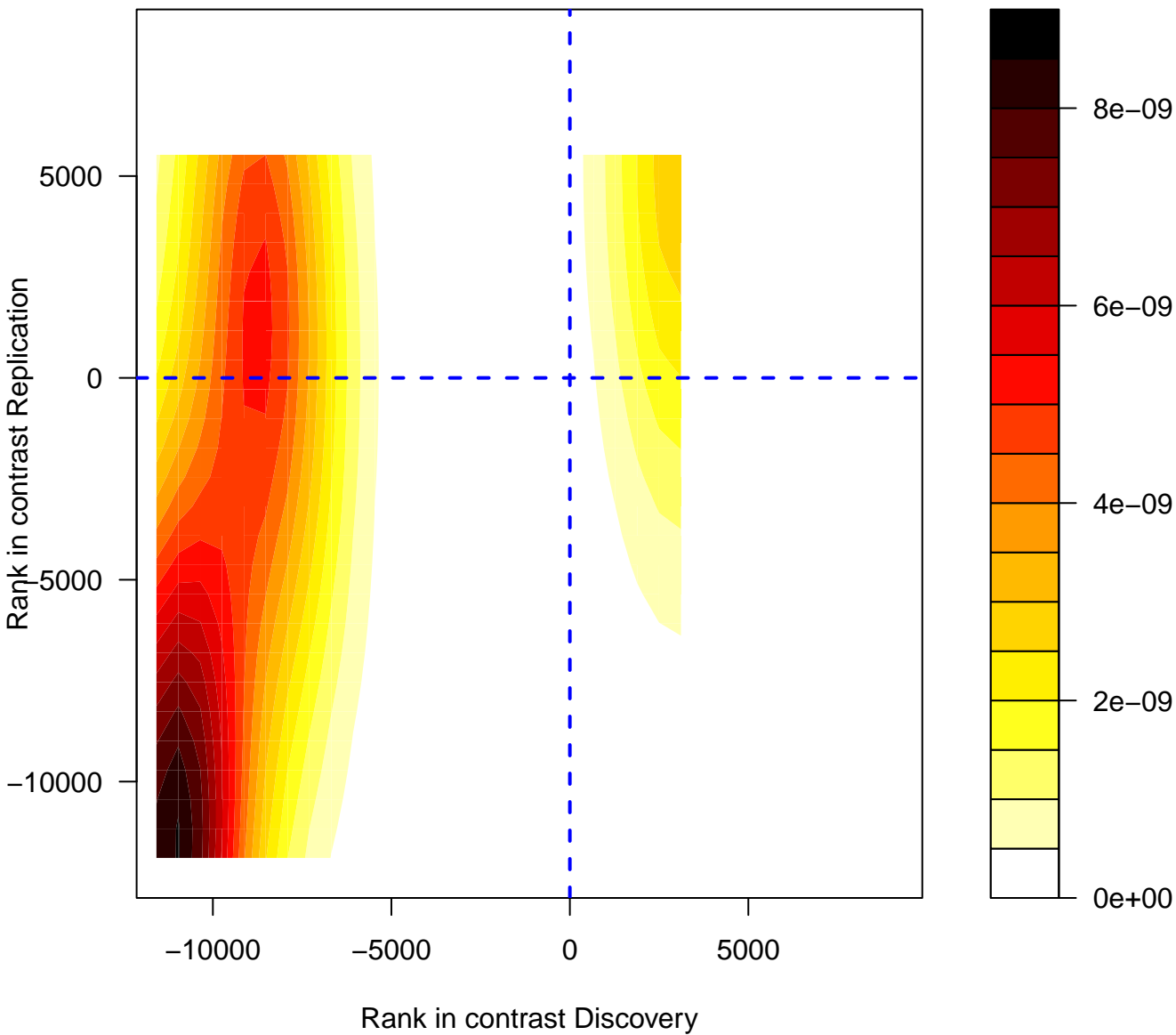
REACTOME_NEF_AND_SIGNAL_TRANSDUCTION



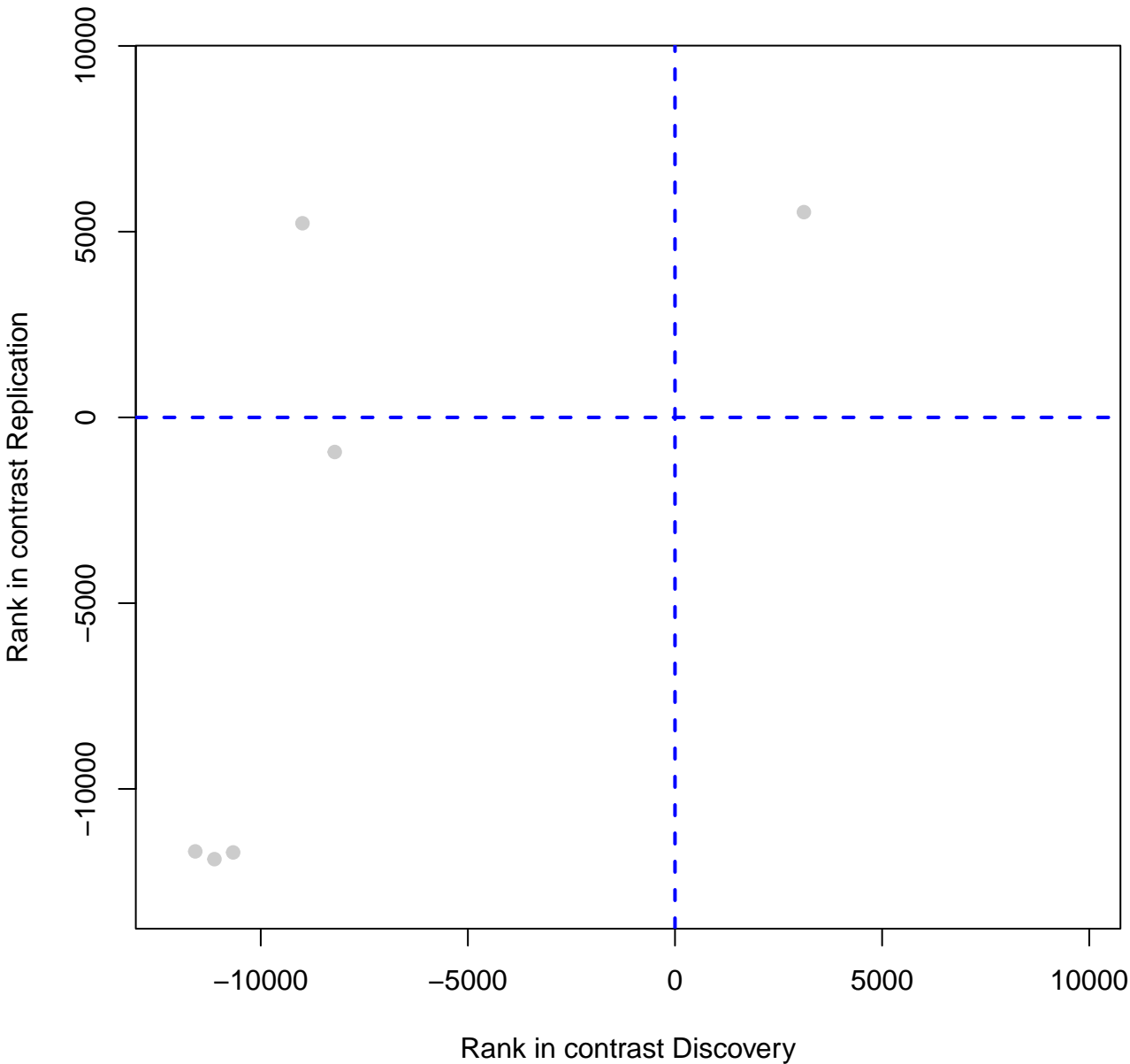
REACTOME_NEF_AND_SIGNAL_TRANSDUCT



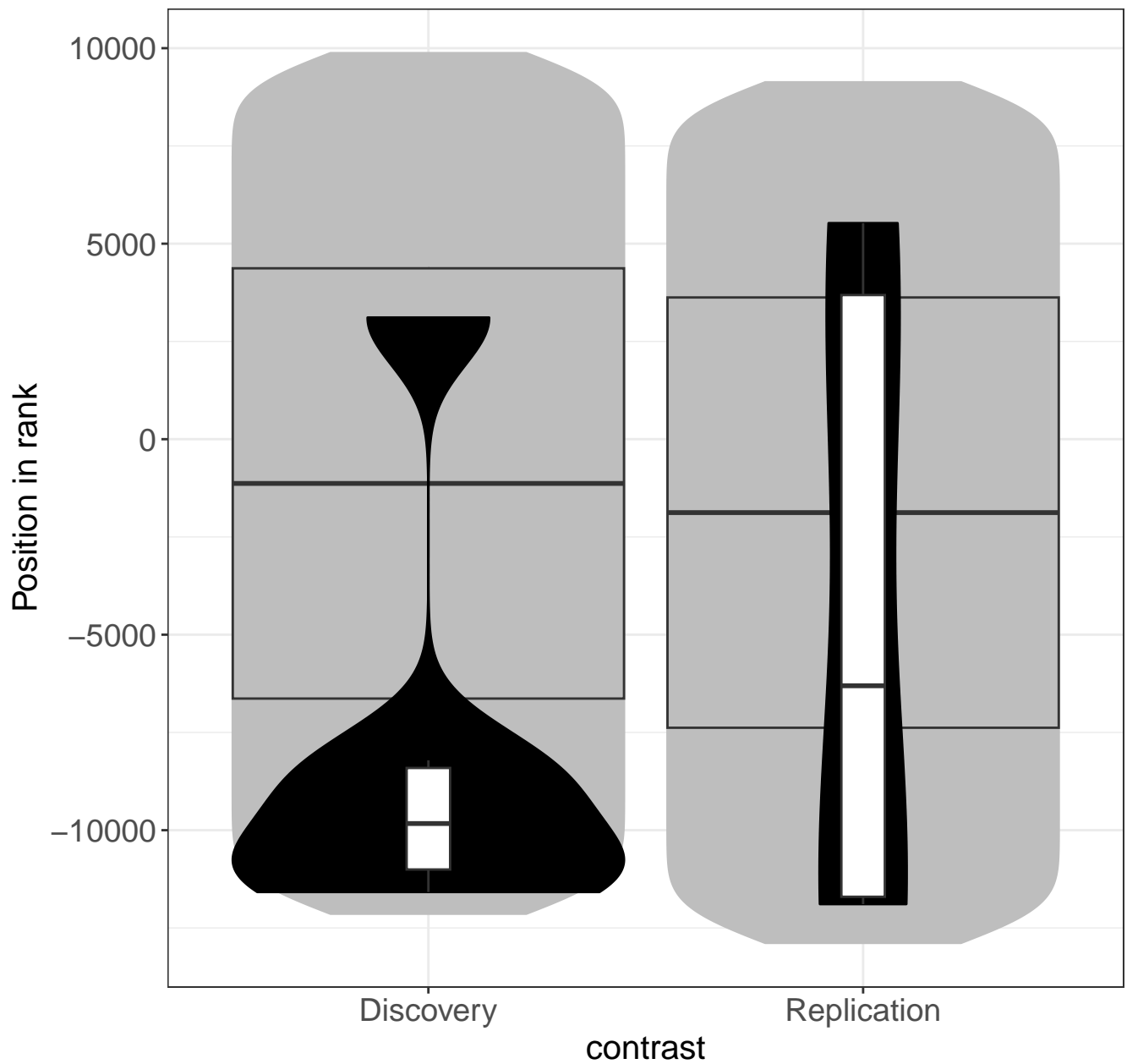
REACTOME_DIGESTION_OF_DIETARY_CARBOHYDRAT



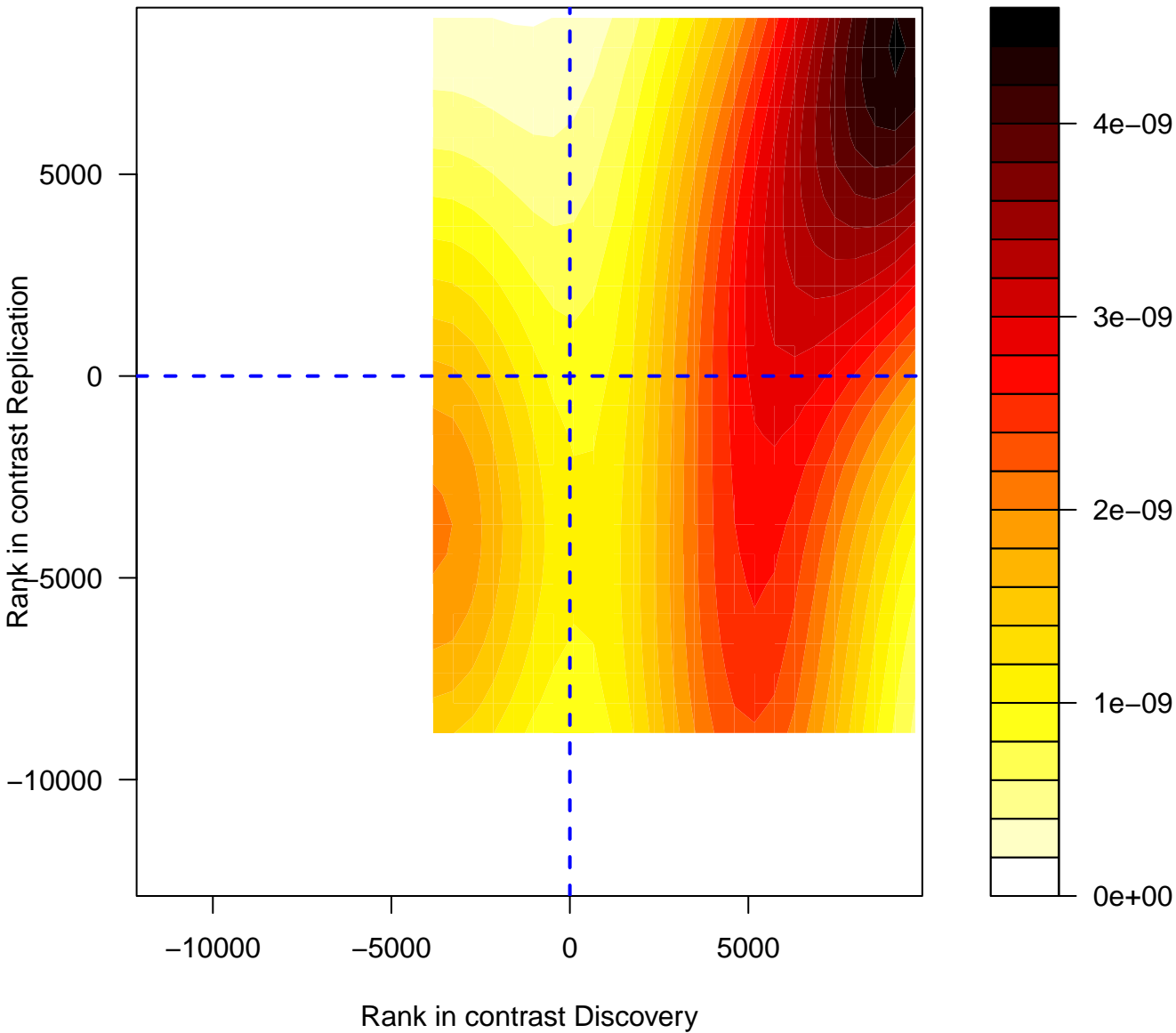
REACTOME_DIGESTION_OF_DIETARY_CARBOHYDRATE



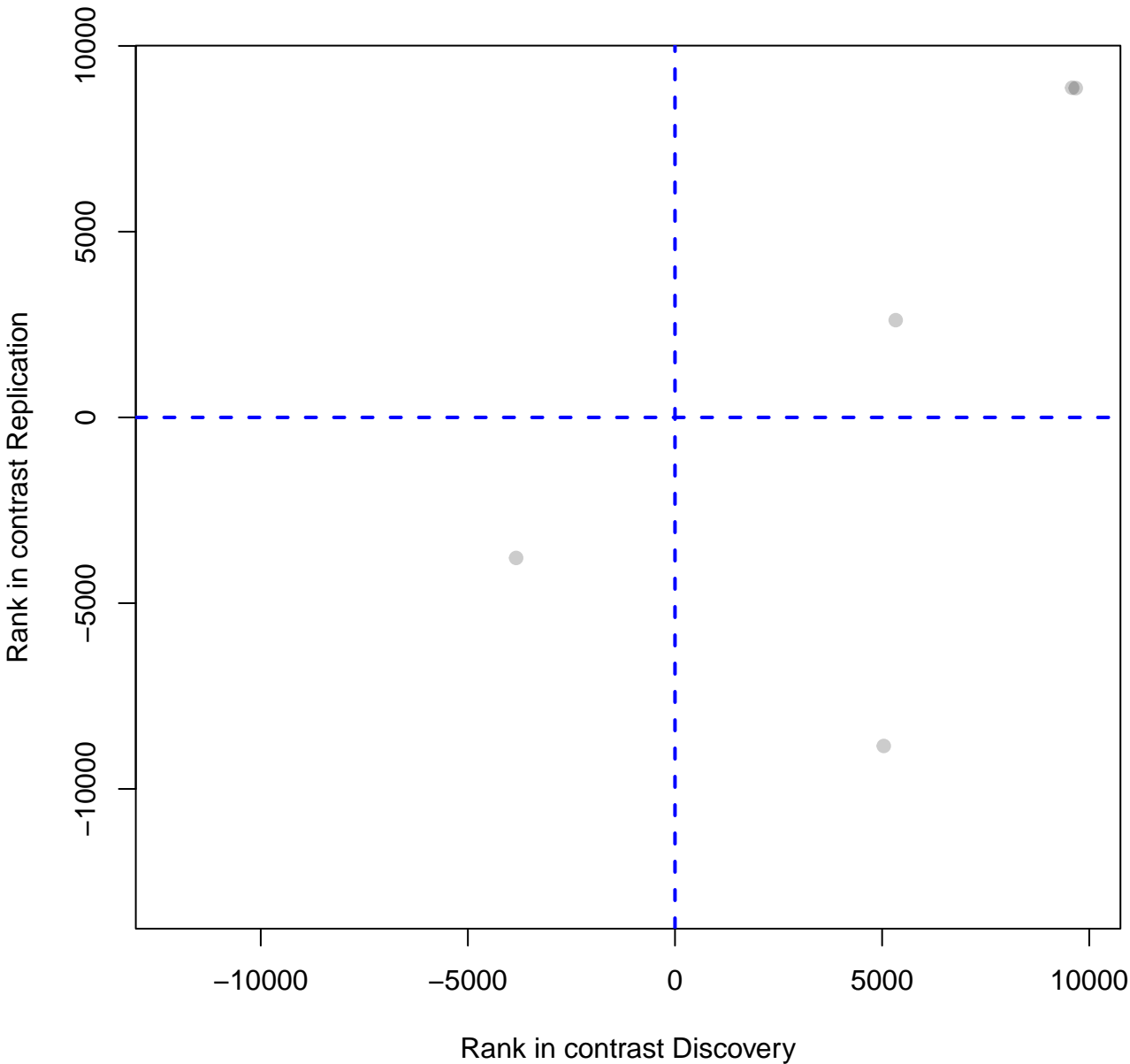
REACTOME_DIGESTION_OF_DIETARY_CARBS



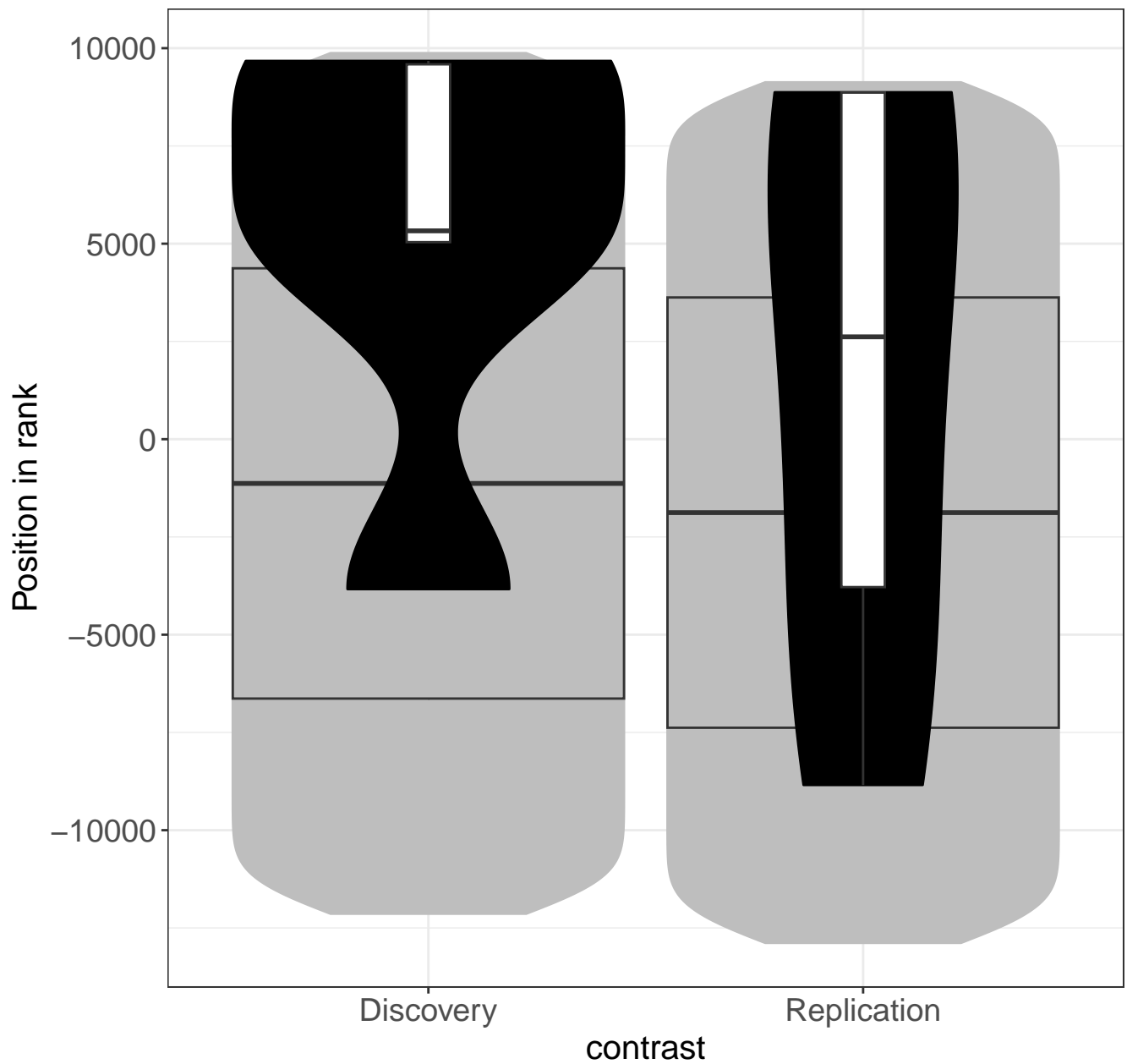
FAP2_AP_2_FAMILY_REGULATES_TRANSCRIPTION_OF_CEI



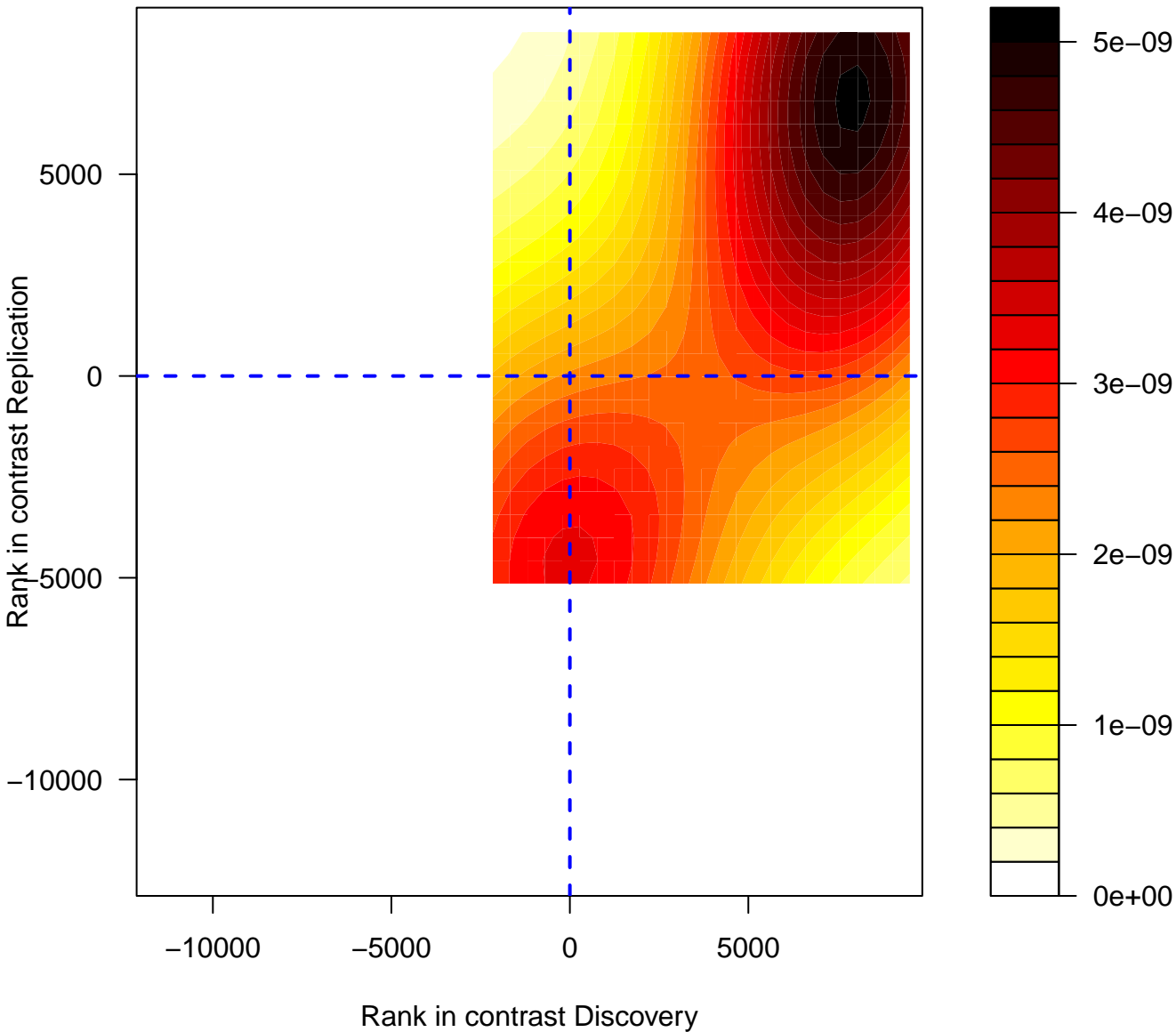
TFAP2_AP_2_FAMILY_REGULATES_TRANSCRIPTION_OF_CELL_CYCLE



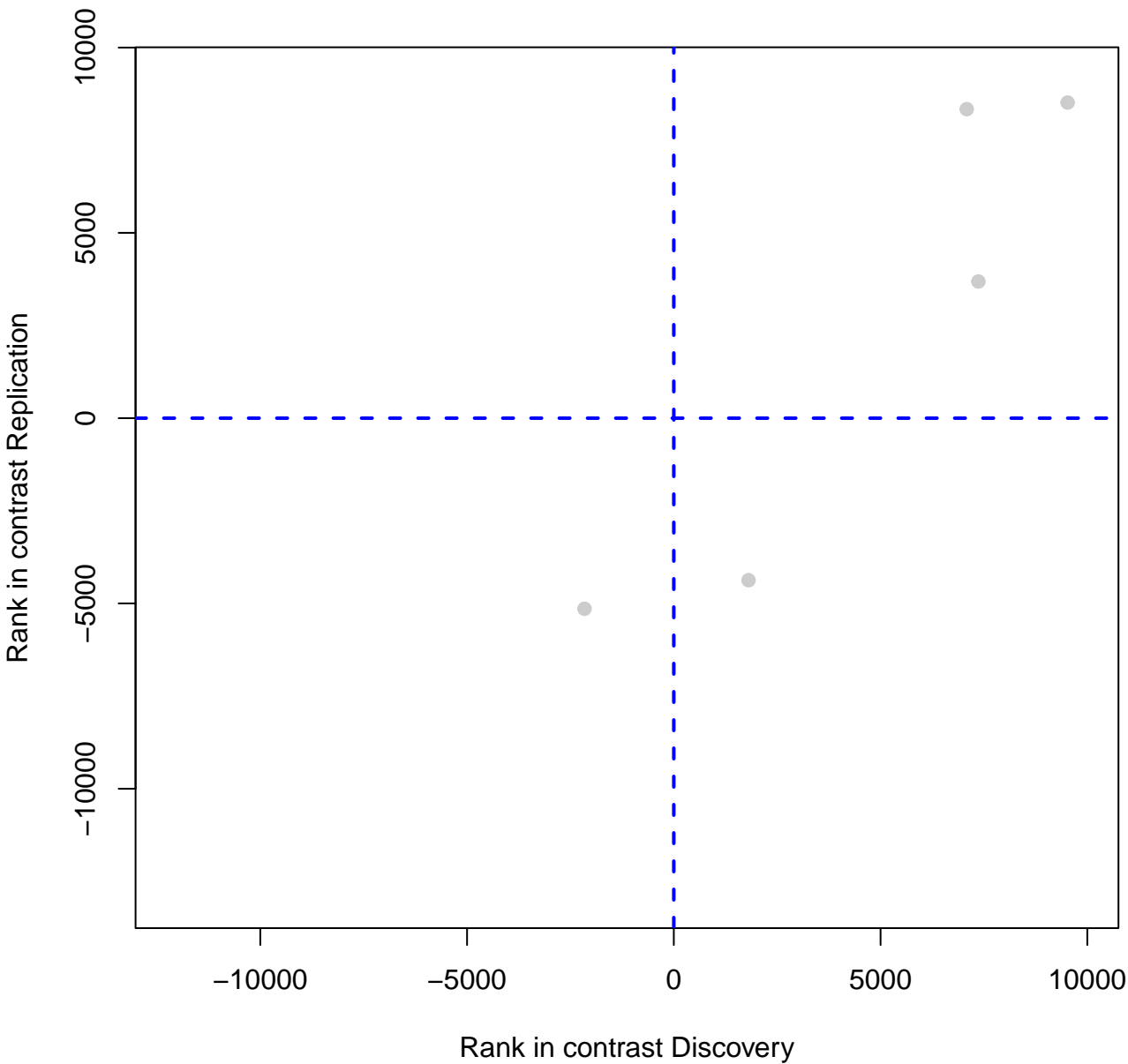
REACTOME_TFAP2_AP_2_FAMILY_REGULATI



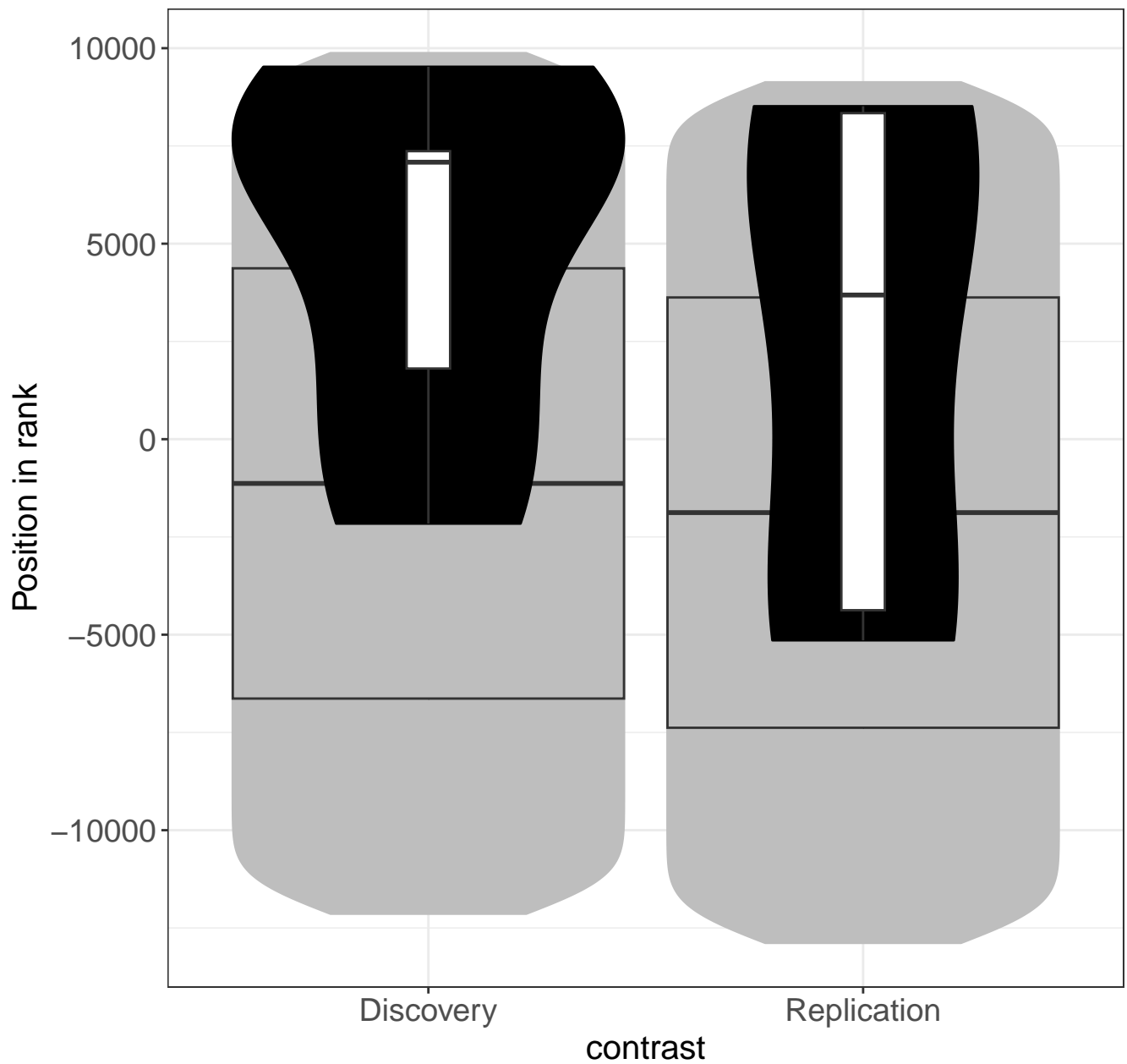
REACTOME_NGF_INDEPENDANT_TRKA_ACTIVATION



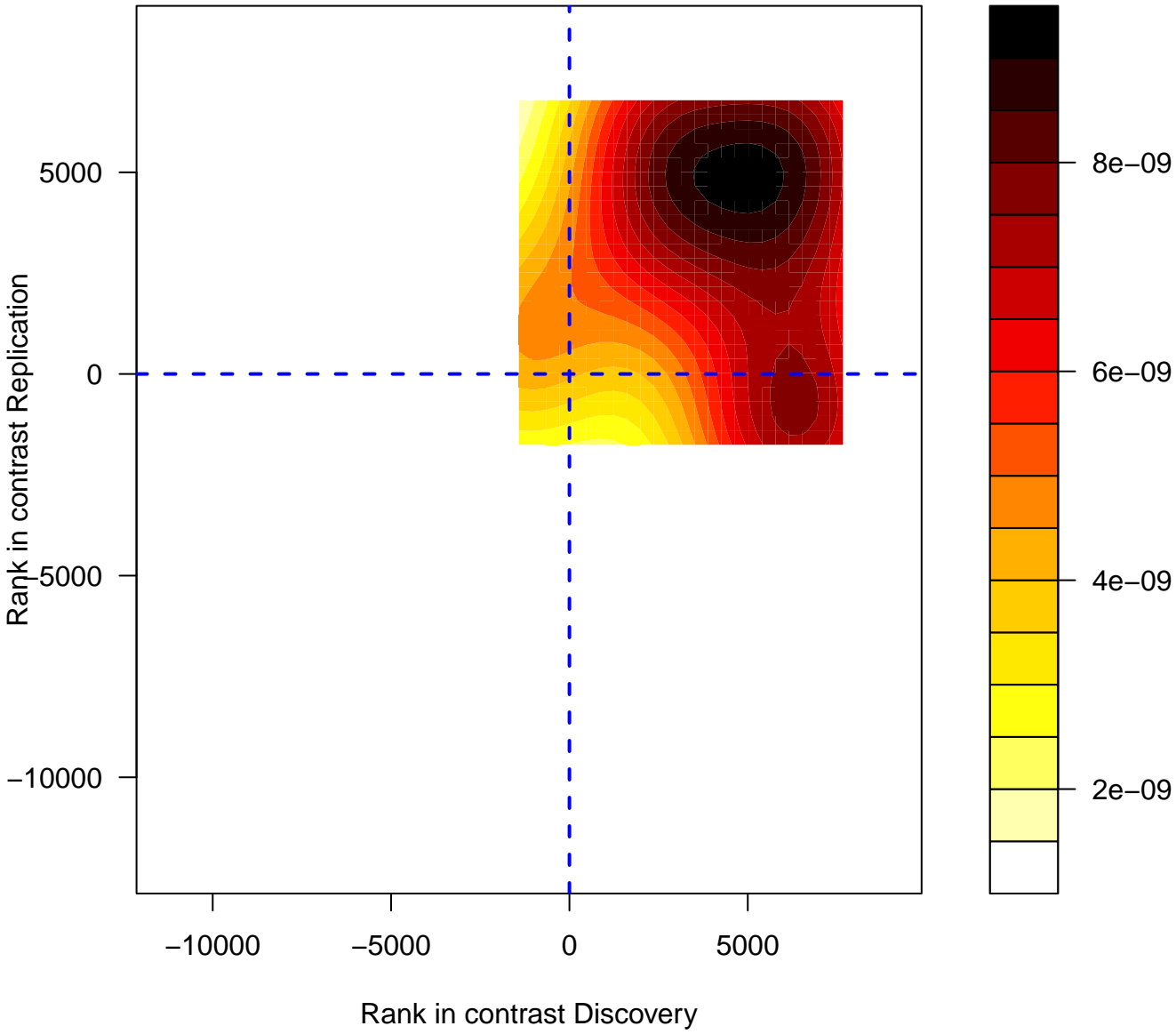
REACTOME_NGF_INDEPENDANT_TRKA_ACTIVATION



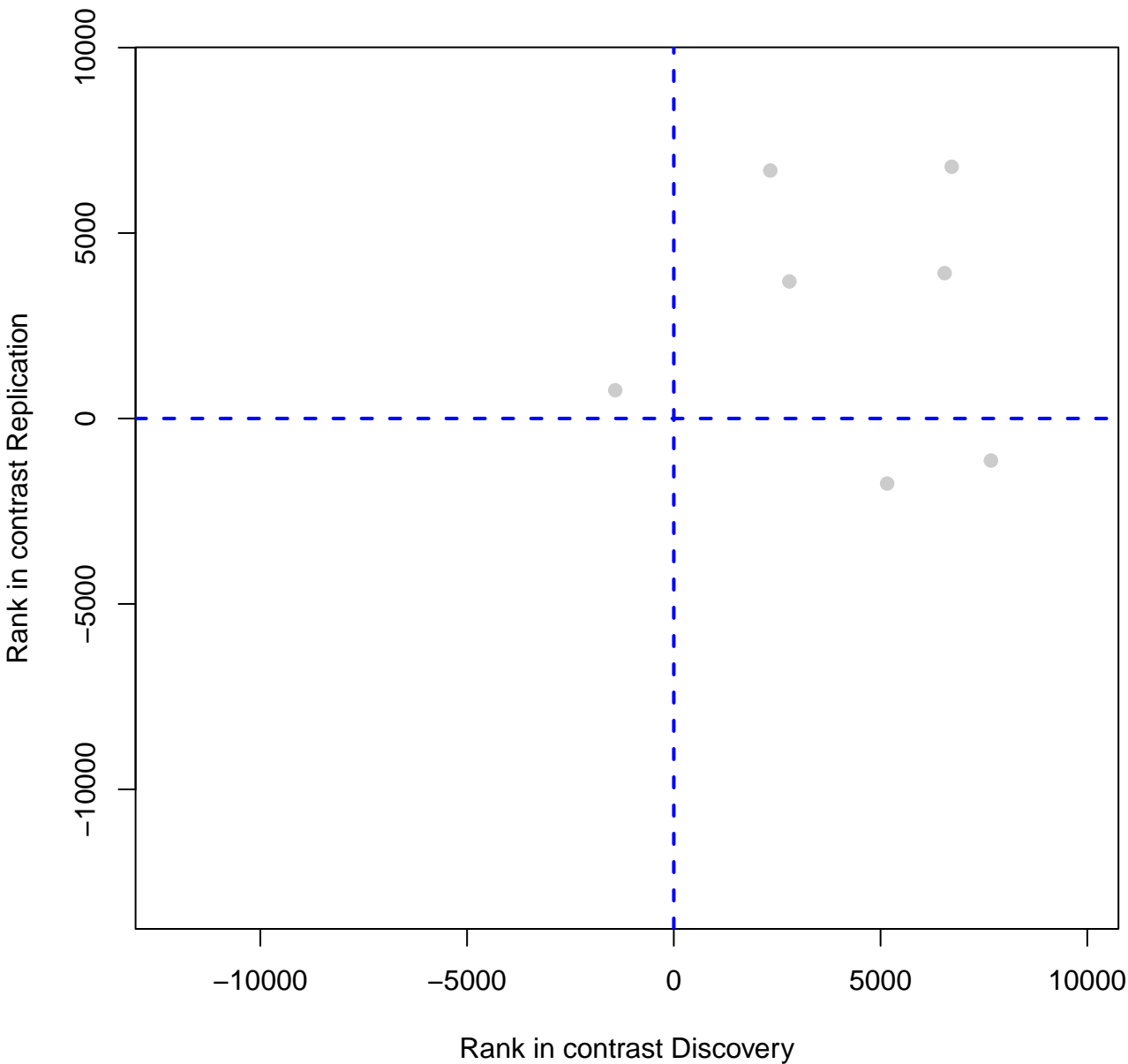
REACTOME_NGF_INDEPENDANT_TRKA_ACT



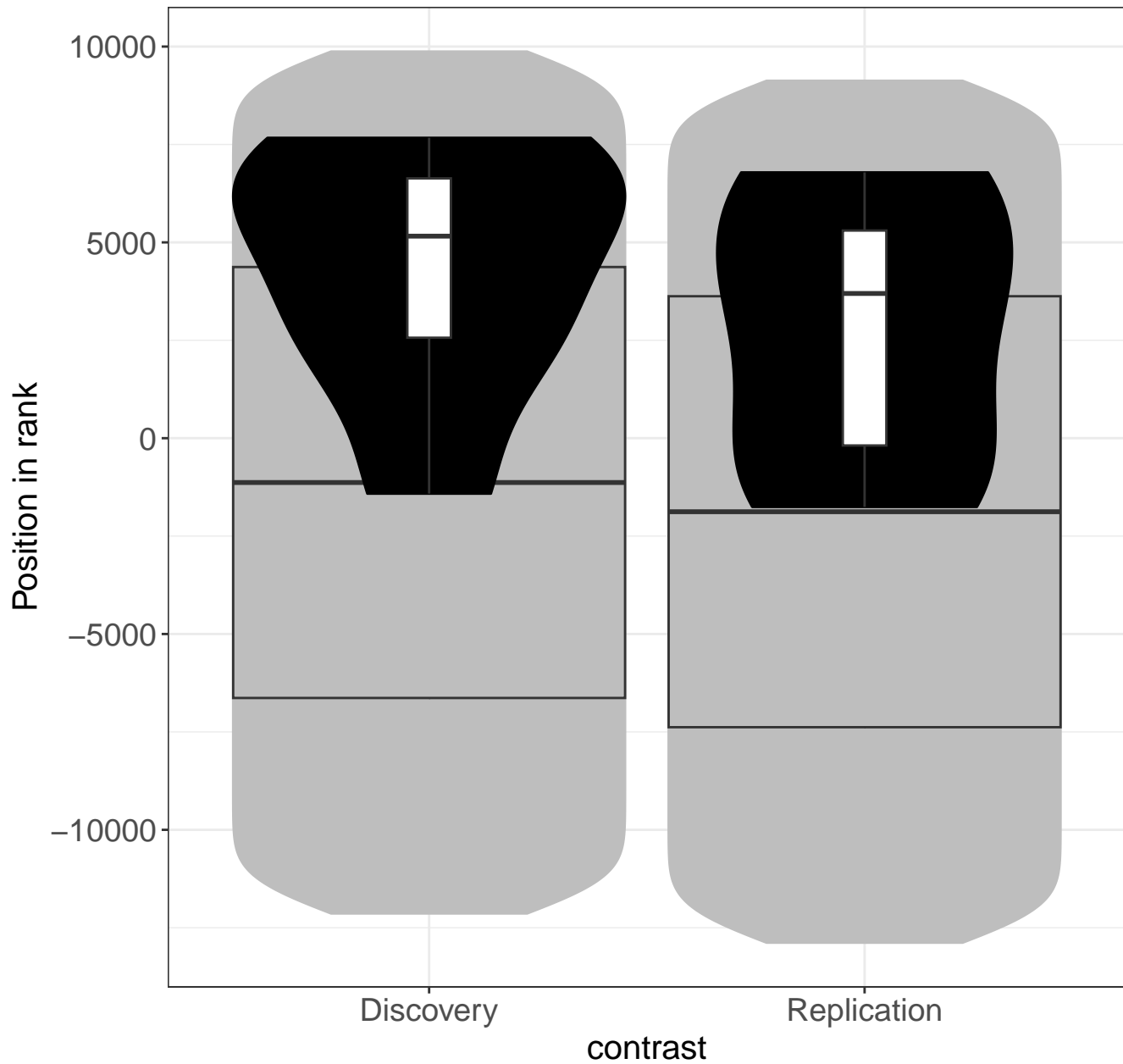
TOME_NFE2L2_REGULATES_PENTOSE_PHOSPHATE_PATH



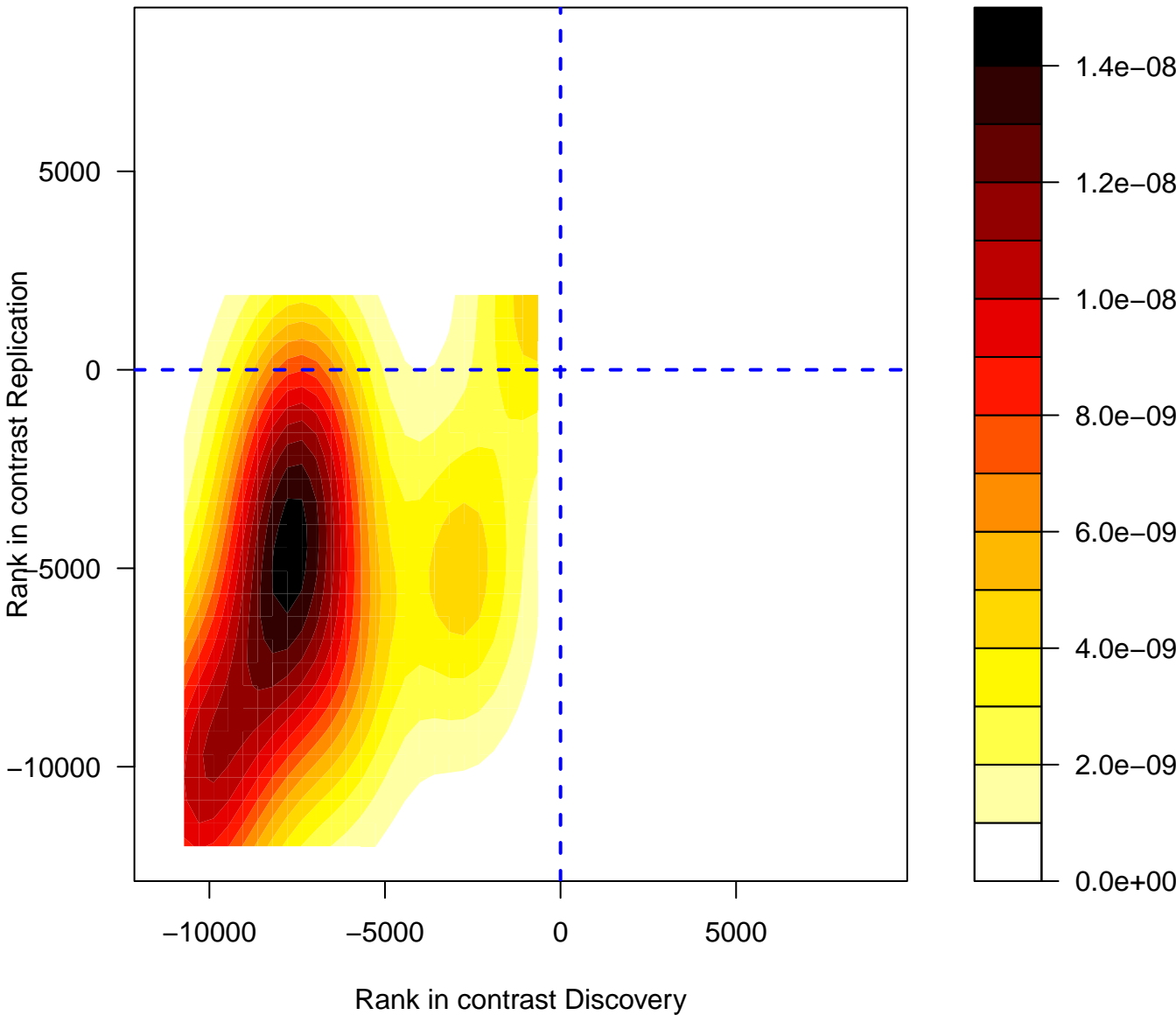
REACTOME_NFE2L2_REGULATES_PENTOSE_PHOSPHATE_PATHWAY_GE



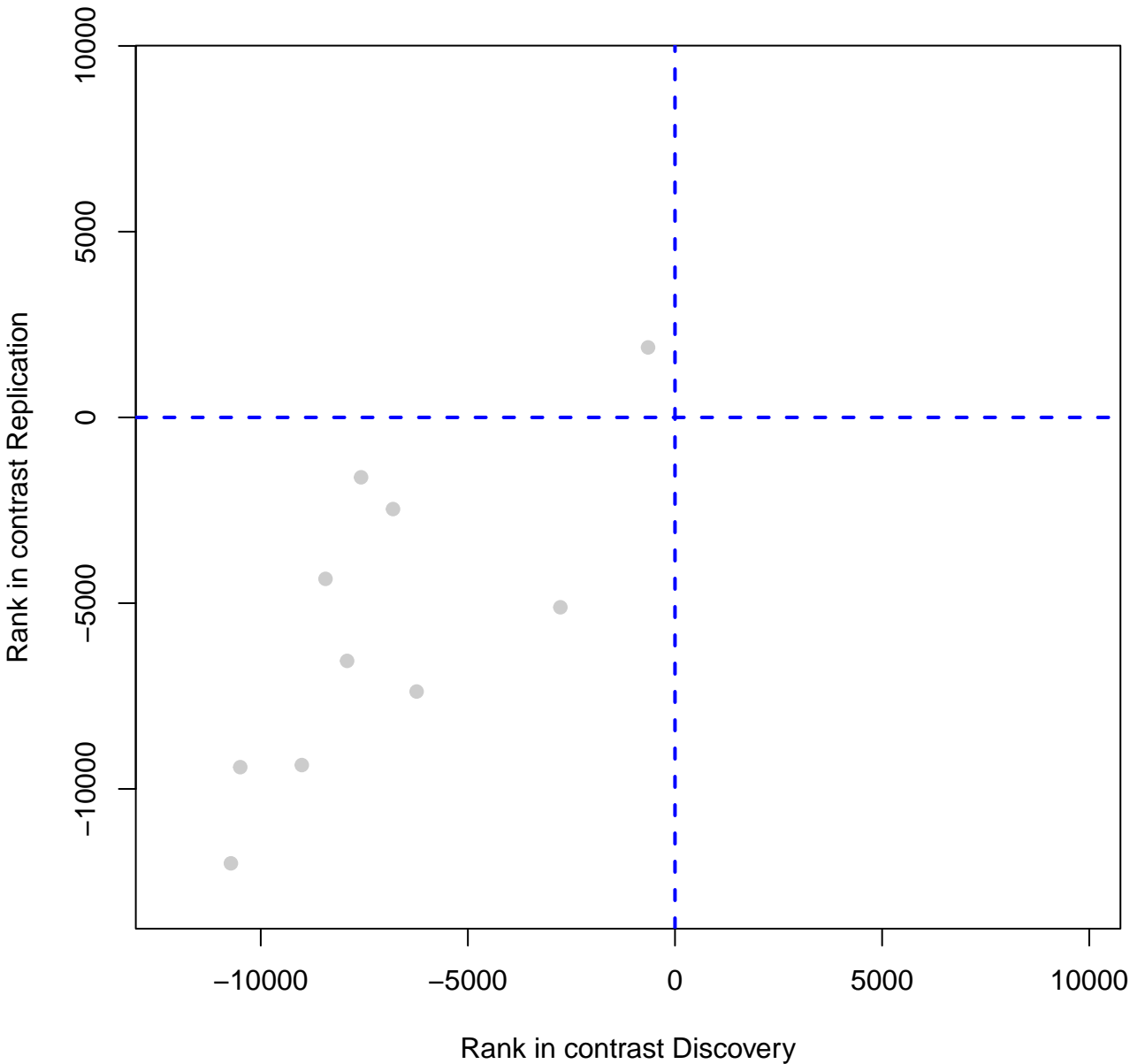
REACTOME_NFE2L2_REGULATES_PENTOSE



REACTOME_BICARBONATE_TRANSPORTERS



REACTOME_BICARBONATE_TRANSPORTERS



REACTOME_BICARBONATE_TRANSPORTERS

