Table S4A. Complete list of GO terms enriched in the *M. tuberculosis* H37Rv succinylome.

GO-ID	Description	Term	p-value	corr p-value	x	n	X	N	Genes in test set
40007	growth	BiologicalProcess	9.86E-15	1.32E-12	224	705	531	2477	15611000, 15610139, 448824799, 448824796, 448824797, 15610805, 15610678, 15610041, 15608523, 15610532, 15608520, 15607541, 15610936, 15607492, 15608527, 15610146, 15607491, 15610937, 15607938, 345462027, 15607498, 57116724, 15609282, 15608530, 15608531, 15607551, 57117131, 15607847, 15607651, 15607846, 15610019, 15607384, 15607845, 161352467, 15609494, 57117128, 15607951, 15607854, 15609298, 15607855, 15610553, 15610554, 15610572, 15610166, 15607563, 15607564, 15607856, 57116747, 15607859, 15610027, 15607858, 15608613, 15610026, 15607862, 15609890, 15609751, 448824757, 15608767, 15608768, 15610705, 15608234, 15608372, 15610706, 15608238, 15607776, 15607269, 15609614, 57116768, 57116767, 15607641, 15610106, 15610104, 15608779, 448824761, 15609760, 15609381, 15609382, 15609246, 15608769, 15607780, 15607488, 15610411, 15610926, 15608741, 15610927, 15610417, 15609258, 15608739, 15609352, 15607506, 15610121, 15607792, 15607791, 15607603, 15609357, 15607330, 15610421, 15607475, 15607912, 57116786, 15610123, 15607525, 15608755, 15610719, 15609229, 15610717, 15608749, 15610132, 15608341, 15610812, 15610745, 57117044, 57117042, 15609848, 57117041, 15610226, 15609661, 15610225, 15610224, 15610223, 15608086, 15608154, 57117051, 15608837, 15610733, 15609923, 15610734, 15608157, 15609315, 15608158, 15608091, 15608092, 15609510, 15608097, 15609863, 15608165, 15608163, 15608969, 15608586, 15608262, 15608587, 15609347, 15609549, 15609834, 15608788, 15608833, 15609648, 15609332, 15608273, 15609337, 15608958, 15610242, 15609528, 15608490, 15609840, 448824735, 15608794, 15608821, 15608793, 15608792, 15609743, 15609637, 15610275, 57116990, 15609168, 15607840, 15610784, 57117137, 57117081, 15610782, 15607844, 15608424, 15607842, 15607841, 57117147, 15610472, 57116987, 15608043, 15608576, 15608575, 15608574, 15608432, 15610595, 15608437, 15608435, 15607823, 15607825, 15607581, 15609692, 15610188, 15608447, 15608446, 15608449, 15610064, 15608448, 15609976, 15610391, 15609585, 57117168, 15608876, 15610593, 15610594, 15609581, 15610056, 15608024, 15610492, 15608451, 15608450, 15610384, 15610579, 15610382, 15609982, 15608455, 15609675, 15610995, 15609674, 15609677, 15607807, 15607808, 15610994, 15609579, 15610276, 15609671, 15609670
42180	cellular ketone metabolic process	BiologicalProcess	3.60E-09	2.73E-07	55	124	531	2477	15608621, 15609890, 15608622, 15609910, 448824754, 15609322, 448824753, 57117044, 57116734, 57117042, 57116735, 15607776, 15610936, 15607644, 15608630, 15608631, 15608576, 15610363, 15607641, 15607688, 15608219, 345462027, 15608474, 15608435, 15607208, 15607782, 15609382, 15607784, 15610974, 15609863, 15608674, 15609917, 15607551, 15607382, 15608741, 15608114, 15607383, 161352467, 15609347, 15610961, 15608974, 15609357, 15607609, 15607330, 15610475, 57117031, 15610384, 15610072, 15609675, 15610525, 15608749, 15608794, 57116972, 15609635, 15610528
19752	carboxylic acid metabolic process	BiologicalProcess	3.86E-09	2.73E-07	54	121	531	2477	15608621, 15609890, 15608622, 15609910, 448824754, 15609322, 448824753, 57117044, 57116734, 57117042, 57116735, 15607776, 15610936, 15607644, 15608630, 15608631, 15608576, 15610363, 15607641, 15608219, 345462027, 15608474, 15608435, 15607208, 15607782, 15609382, 15607784, 15610974, 15609863, 15608674, 15609917, 15607551, 15607382, 15608741, 15608114, 15607383, 161352467, 15609347, 15610961, 15608974, 15609357, 15607609, 15607330, 15610475, 57117031, 15610384, 15610072, 15609675, 15610525, 15608749, 15608794, 57116972, 15610528, 15609635
43436	oxoacid metabolic process	BiologicalProcess	3.86E-09	2.73E-07	54	121	531	2477	15608621, 15609890, 15608622, 15609910, 448824754, 15609322, 448824753, 57117044, 57116734, 57117042, 57116735, 15607776, 15610936, 15607644, 15608630, 15608631, 15608576, 15610363, 15607641, 15608219, 345462027, 15608474, 15608435, 15607208, 15607782, 15609382, 15607784, 15610974, 15609863, 15608674, 15609917, 15607551, 15607382, 15608741, 15608114, 15607383, 161352467, 15609347, 15610961, 15608974, 15609357, 15607609, 15607330, 15610475, 57117031, 15610384, 15610072, 15609675, 15610525, 15608749, 15608794, 57116972, 15610528, 15609635
6082	organic acid metabolic process	BiologicalProcess	3.86E-09	2.73E-07	54	121	531	2477	15608621, 15609890, 15608622, 15609910, 448824754, 15609322, 448824753, 57117044, 57116734, 57117042, 57116735, 15607776, 15610936, 15607644, 15608630, 15608631, 15608576, 15610363, 15607641, 15608219, 345462027, 15608474, 15608435, 15607208, 15607782, 15609382, 15607784, 15610974, 15609863, 15608674, 15609917, 15607551, 15607382, 15608741, 15608114, 15607383, 161352467, 15609347, 15610961, 15608974, 15609357, 15607609, 15607330, 15610475, 57117031, 15610384, 15610072, 15609675, 15610525, 15608749, 15608794, 57116972, 15610528, 15609635
8150	biological_process	BiologicalProcess	3.08E-08	2.06E-06	351	1381	531	2477	15611000, 15610945, 448824799, 15610139, 448824796, 448824797, 57116734, 57116735, 15609277, 15610805, 15610678, 15610041, 15607873, 15608523, 15610532, 15608520, 15610936, 15607541, 15607492, 15608734, 15607491, 15610146, 15608527, 15610937, 15607688, 15610692, 15607938, 15607498, 345462027, 57116724, 15607208, 15609282, 15608530, 15608531, 15609591, 15607551, 15607382, 57117131, 15607383, 15608114, 15607847, 15607384, 15610019, 15607846, 15607651, 15607385, 15608112, 15607845, 15609599, 161352467, 15609494, 15610961, 15609495, 57117128, 15608313, 15610652, 15607951, 15607854, 15609298, 15607855, 15611016, 15609395, 15610553, 15607548, 15611017, 15610554, 15610572, 15610166, 15607563, 15607564, 15607856, 57116747, 15607859, 15610027, 15607858, 15608613, 15610026, 15610032, 15607961, 15607862, 15609890, 15609751, 15608621, 15608622, 448824757, 15608767, 15608768, 448824754, 448824753, 15610705, 15608234, 15610704, 15608372, 15610706, 15609234, 15608238, 15607776, 15607269, 15608399, 15608379, 15607644, 15608630, 15609614, 15608631, 15607352, 57116768, 57116767, 15607641, 15608776, 15608219, 15610106, 15610104, 15608779, 15609761, 15610102, 15609760, 448824761, 15608774, 15608386, 15609249, 15607782, 15609381, 15609382, 15607784, 15608769, 15609246, 15608380, 15607151, 15607780, 15609778, 15607488, 15610411, 15608741, 15610416, 15610926, 15610417, 15610927, 15608739, 15607148, 15609258, 15610728, 15609352, 15607506, 15607795, 15610121, 15607504, 15607792, 15607791, 15609211, 15609359, 15607603, 15609357, 15607609, 15610421, 15607330, 15607913, 15607475, 15607912, 57116786, 57116903, 15607525, 15610123, 448824785, 15608755, 15607331, 15610525, 15610719, 15609229, 15608749, 15610717, 15610132, 448824781, 15608341, 15610814, 15607279, 15607616, 15610812, 15610528, 15610745, 15609910, 15609324, 15608283, 15609322, 57117044, 15609848, 57117042, 15608463, 57117041, 15609661, 15610226, 15610225, 15609521, 15610224, 15608086, 15610223, 15609664, 57117051, 15608154, 15608837, 15610363, 15609923, 15610733, 15610360, 15610734, 15609117, 15610870, 15608295, 15609315, 15608474, 15608157, 15609013, 15608091, 15608158, 15608092, 15609510, 15608097, 15609863, 15608674, 15609917, 15610359, 15609639, 15610764, 15608486, 15608165, 15608163, 15609142, 15607196, 15608586, 15608969, 15608587, 15608262, 15609348, 15609347, 15608067, 15609549, 15608682, 15608788, 15609834, 15609640, 15608974, 15608833, 15609648, 15609332, 15609436, 15609133, 57117031, 15608273, 15609337, 15608958, 15609528, 15609139, 15610242, 15608490, 15609840, 15608794, 448824735, 15608964, 15608071, 15608821, 15608793, 15609635, 15608792, 15609637, 15609743, 57116993, 15610275, 57116990, 15609168, 15609169, 15607840, 15610784, 15609069, 57117081, 57117137, 15610782, 15607844, 15608424, 15607842, 15609422, 15607841, 15610982, 57116800, 57117147, 15610985, 15607573, 15610269, 15609566, 15609565, 15610988, 15610472, 57116987, 57116704, 15608043, 15608576, 15608575, 15608574, 15610090, 15608432, 15610595, 15608437, 15608435, 15607823, 15607825, 15610974, 15607581, 15607586, 15609692, 15608050, 15610188, 15609045, 15608447, 15608446, 15610065, 15608449, 15610064, 15608448, 15609976, 15610391, 15609585, 57117168, 15610593, 15608876, 15610594, 15609581, 15610056, 15608024, 15610492, 15608451, 15608450, 15610475, 15610897, 15610579, 15610384, 15610077, 15610382, 15609982, 15608455, 15610072, 15609675, 15610995, 15609674, 15609677, 15607807, 15607808, 15610994, 15609579, 57116972, 15611050, 15610276, 15609671, 15609670
44281	small molecule metabolic process	BiologicalProcess	3.56E-08	2.26E-06	83	228	531	2477	57116993, 15609890, 15608621, 57116990, 15609910, 15608622, 57117081, 15609322, 448824754, 57117044, 448824753, 15609848, 57117042, 57116734, 57116735, 15610225, 15609521, 15610704, 15607873, 15610706, 15607776, 15608086, 15610936, 15607644, 15608630, 57117051, 15608631, 15608734, 15608576, 15610363, 15607641, 15607688, 15608219, 15610870, 15608295, 345462027, 15610102, 15608474, 15608157, 15608435, 15607208, 15607782, 15609382, 15607784, 15610974, 15608769, 15609863, 15608674, 15610188, 15609917, 15608530, 15608486, 15607551, 15608741, 15607382, 15607383, 15608114, 15609348, 15609347, 161352467, 15610961, 15607148, 15609834, 15608974, 15607504, 15608833, 15609357, 15607609, 15607913, 15607330, 15610475, 15607475, 57117031, 15610384, 15610072, 15609675, 15610525, 15608794, 15608749, 57116972, 15609635, 15610528, 15609743
9987	cellular process	BiologicalProcess	3.46E-07	2.08E-05	151	506	531	2477	15610945, 448824799, 15609910, 15609324, 15608283, 15609322, 57117044, 15609848, 57117042, 57116734, 57116735, 15610225, 15609521, 15607873, 15608086, 15610936, 57117051, 15607492, 15608734, 15610363, 15607491, 15610733, 15610937, 15607688, 15609117, 15610870, 15608295, 345462027, 15609315, 15608474, 15608157, 15607208, 15609282, 15609863, 15608674, 15609917, 15608530, 15610359, 15609639, 15610764, 15608486, 15609591, 15609142, 15607551, 15607196, 15607382, 15607383, 15608114, 15610019, 15609348, 15609347, 15609599, 161352467, 15610961, 15608313, 15609834, 15608974, 15608833, 15609395, 15610553, 15611017, 15610554, 15609436, 15609133, 57117031, 15609528, 15610032, 15608794, 15608964, 15608071, 15609635, 15609743, 57116993, 15609890, 15608621, 57116990, 15609168, 15608622, 15609069, 57117081, 448824754, 448824753, 15609422, 15609234, 15607776, 15607573, 15610269, 15609566, 15609565, 57116987, 57116704, 15608399, 15607644, 15608630, 15608631, 15607352, 15608576, 15607641, 15610090, 15608219, 15608776, 15610102, 15609761, 15608437, 15609760, 15608435, 15608386, 15609249, 15609381, 15607782, 15609382, 15607784, 15610974, 15609246, 15608769, 15608380, 15610188, 15609045, 15610926, 15608741, 15610065, 15610927, 15607148, 15610728, 15609352, 15607795, 15610121, 15607504, 15607603, 15609357, 15607609, 15607330, 15607913, 15610475, 15607475, 15610384, 57116903, 15610077, 15610382, 448824785, 15610123, 15610072, 15609675, 15610525, 15610719, 15608749, 15610717, 57116972, 15611050, 15607616, 15610528
6519	cellular amino acid and derivative metabolic process	BiologicalProcess	6.32E-07	3.62E-05	28	54	531	2477	15609890, 15609910, 15607551, 15608741, 448824753, 57117044, 15609347, 57117042, 15609357, 15607330, 15607913, 15607644, 15607641, 15608219, 57117031, 15610384, 345462027, 15608474, 15608435, 15609675, 15608749, 15608794, 15610974, 15609863, 57116972, 15608674, 15609917, 15610528
6520	cellular amino acid metabolic process	BiologicalProcess	1.39E-06	7.25E-05	25	47	531	2477	15609890, 15609910, 15607551, 15608741, 448824753, 57117044, 15609347, 57117042, 15609357, 15607330, 15607641, 15608219, 57117031, 15610384, 345462027, 15608474, 15608435, 15609675, 15608749, 15608794, 15610974, 15609863, 57116972, 15608674, 15609917
43933	macromolecular complex subunit organization	BiologicalProcess	1.48E-06	7.42E-05	35	77	531	2477	15609890, 15608621, 15609168, 15609910, 15607196, 15610019, 57117042, 15610982, 15609258, 15610706, 15610056, 15607504, 15608833, 15609566, 15609565, 15609359, 15609357, 15608379, 15610553, 15610554, 15610936, 15607641, 15610733, 15607688, 15610384, 15610102, 15608437, 15608157, 15609315, 15608158, 15609674, 15608794, 15610974, 15608341, 15609917
16053	organic acid biosynthetic process	BiologicalProcess	2.03E-06	9.39E-05	36	81	531	2477	15608621, 15609890, 15609910, 15608622, 15607382, 15608741, 15608114, 15609347, 57117044, 57117042, 15610961, 57116735, 15607776, 15609357, 15607609, 15610936, 15607330, 15607644, 15610363, 15607641, 15608219, 345462027, 15608474, 15610072, 15608435, 15609675, 15610525, 15607782, 15609382, 15608794, 15607784, 15608749, 15610974, 15609863, 57116972, 15610528
46394	carboxylic acid biosynthetic process	BiologicalProcess	2.03E-06	9.39E-05	36	81	531	2477	15608621, 15609890, 15609910, 15608622, 15607382, 15608741, 15608114, 15609347, 57117044, 57117042, 15610961, 57116735, 15607776, 15609357, 15607609, 15610936, 15607330, 15607644, 15610363, 15607641, 15608219, 345462027, 15608474, 15610072, 15608435, 15609675, 15610525, 15607782, 15609382, 15608794, 15607784, 15608749, 15610974, 15609863, 57116972, 15610528

51259	protein oligomerization	BiologicalProcess	2.27E-06	1.01E-04	34	75	531	2477	15608621, 15609890, 15609168, 15609910, 15607196, 57117042, 15610982, 15609258, 15610706, 15610056, 15607504, 15608833, 15609566, 15609565, 15609359, 15609357, 15608379, 15610553, 15610554, 15610936, 15607641, 15610733, 15607688, 15610384, 15610102, 15608437, 15608157, 15609315, 15608158, 15609674, 15608794, 15610974, 15608341, 15609917
44237	cellular metabolic process	BiologicalProcess	2.80E-06	1.20E-04	120	394	531	2477	15609910, 15608283, 15609324, 15609322, 57117044, 57116734, 57117042, 15609848, 57116735, 15610225, 15609521, 15607873, 15608086, 15610936, 57117051, 15608734, 15607491, 15610363, 15610733, 15607688, 345462027, 15608295, 15610870, 15608157, 15608474, 15609315, 15607208, 15609863, 15608674, 15608530, 15609917, 15610764, 15609639, 15608486, 15609591, 15607551, 15607382, 15608114, 15607383, 15610019, 15609348, 15609347, 161352467, 15610961, 15608313, 15609834, 15608974, 15608833, 15610553, 57117031, 15609528, 15608794, 15608964, 15609635, 15609743, 57116993, 15609890, 15608621, 57116990, 15609168, 15608622, 15609069, 57117081, 448824754, 448824753, 15609422, 15609234, 15607776, 57116987, 57116704, 15608399, 15607644, 15608630, 15608631, 15608576, 15607641, 15610090, 15608219, 15610102, 15608437, 15608435, 15609249, 15608386, 15609381, 15607782, 15609382, 15607784, 15610974, 15609246, 15608769, 15608380, 15610188, 15609045, 15610926, 15608741, 15610927, 15607148, 15610728, 15610121, 15607504, 15609357, 15607609, 15607913, 15607330, 15610475, 15607475, 15610384, 57116903, 15610077, 15610382, 448824785, 15610123, 15610072, 15609675, 15610525, 15610717, 15608749, 57116972, 15611050, 15610528
6461	protein complex assembly	BiologicalProcess	3.29E-06	1.28E-04	34	76	531	2477	15608621, 15609890, 15609168, 15609910, 15607196, 57117042, 15610982, 15609258, 15610706, 15610056, 15607504, 15608833, 15609566, 15609565, 15609359, 15609357, 15608379, 15610553, 15610554, 15610936, 15607641, 15610733, 15607688, 15610384, 15610102, 15608437, 15608157, 15609315, 15608158, 15609674, 15608794, 15610974, 15608341, 15609917
70271	protein complex biogenesis	BiologicalProcess	3.29E-06	1.28E-04	34	76	531	2477	15608621, 15609890, 15609168, 15609910, 15607196, 57117042, 15610982, 15609258, 15610706, 15610056, 15607504, 15608833, 15609566, 15609565, 15609359, 15609357, 15608379, 15610553, 15610554, 15610936, 15607641, 15610733, 15607688, 15610384, 15610102, 15608437, 15608157, 15609315, 15608158, 15609674, 15608794, 15610974, 15608341, 15609917
65003	macromolecular complex assembly	BiologicalProcess	3.29E-06	1.28E-04	34	76	531	2477	15608621, 15609890, 15609168, 15609910, 15607196, 57117042, 15610982, 15609258, 15610706, 15610056, 15607504, 15608833, 15609566, 15609565, 15609359, 15609357, 15608379, 15610553, 15610554, 15610936, 15607641, 15610733, 15607688, 15610384, 15610102, 15608437, 15608157, 15609315, 15608158, 15609674, 15608794, 15610974, 15608341, 15609917
44283	small molecule biosynthetic process	BiologicalProcess	4.11E-06	1.55E-04	50	130	531	2477	15608621, 15609890, 57116990, 15608622, 15609910, 57117081, 448824754, 57117044, 57117042, 57116735, 15607873, 15607776, 15610936, 15607644, 57117051, 15608734, 15610363, 15608576, 15607641, 15607688, 15608219, 345462027, 15608157, 15608474, 15608435, 15607782, 15609382, 15607784, 15610974, 15609863, 15610188, 15607382, 15608741, 15608114, 15609348, 15609347, 15610961, 15608833, 15609357, 15607609, 15607330, 15607475, 15610072, 15609675, 15610525, 15608749, 15608794, 57116972, 15610528, 15609743
51260	protein homooligomerization	BiologicalProcess	5.03E-06	1.83E-04	33	74	531	2477	15608621, 15609890, 15609168, 15609910, 15607196, 57117042, 15610982, 15609258, 15610706, 15610056, 15607504, 15608833, 15609566, 15609565, 15609359, 15609357, 15608379, 15610553, 15610554, 15610936, 15607641, 15610733, 15607688, 15610384, 15608437, 15608157, 15609315, 15608158, 15609674, 15608794, 15610974, 15608341, 15609917
6732	coenzyme metabolic process	BiologicalProcess	5.86E-06	2.07E-04	24	47	531	2477	15607913, 57116993, 15609639, 57116990, 15610475, 15608734, 15609591, 15607688, 57116903, 15607383, 15608283, 15610077, 15610102, 161352467, 15607208, 15608313, 15609381, 15608769, 15608380, 15608974, 15608833, 15608530, 57116704, 15609743
44106	cellular amine metabolic process	BiologicalProcess	6.09E-06	2.09E-04	25	50	531	2477	15609890, 15609910, 15607551, 15608741, 448824753, 57117044, 15609347, 57117042, 15609357, 15607330, 15607641, 15608219, 57117031, 15610384, 345462027, 15608474, 15608435, 15609675, 15608749, 15608794, 15610974, 15609863, 57116972, 15608674, 15609917
51187	cofactor catabolic process	BiologicalProcess	7.34E-06	2.45E-04	9	10	531	2477	15607913, 15610728, 15610475, 15609591, 15608380, 57116903, 161352467, 57116704, 15607208
8152	metabolic process	BiologicalProcess	9.79E-06	3.14E-04	132	452	531	2477	15609910, 15608283, 15609324, 15609322, 57117044, 57116734, 57117042, 15609848, 57116735, 15610225, 15609521, 15607873, 15608086, 15610936, 57117051, 15608734, 15610363, 15607491, 15610733, 15607688, 15610870, 345462027, 15608295, 15609315, 15608474, 15608157, 15607208, 15609863, 15608674, 15609917, 15608530, 15609639, 15610764, 15608486, 15609591, 15607551, 15607382, 15607383, 15608114, 15610019, 15609348, 15608112, 15609347, 161352467, 15610961, 15608313, 15609834, 15608974, 15608833, 15610553, 15607548, 57117031, 15609528, 15609139, 15608794, 15608964, 15609635, 15609743, 57116993, 15609890, 15608621, 57116990, 15609168, 15608622, 15609069, 57117081, 448824754, 448824753, 15609422, 15610704, 15610706, 15609234, 15607776, 15609565, 57116987, 57116704, 15608399, 15607644, 15608630, 15608631, 15608576, 15607641, 15610090, 15608219, 15610102, 15608437, 15608435, 15609249, 15608386, 15609381, 15607782, 15609382, 15607784, 15610974, 15609246, 15608769, 15608380, 15610188, 15609045, 15610926, 15610416, 15608741, 15610065, 15610927, 15610417, 15607148, 15610728, 15610121, 15607504, 15607603, 15609357, 15607609, 15607913, 15607330, 15610421, 15610475, 15607475, 15610384, 57116903, 15610077, 15610382, 448824785, 15610123, 15610072, 15609675, 15610525, 15610717, 15608749, 448824781, 57116972, 15611050, 15610528
44085	cellular component biogenesis	BiologicalProcess	9.92E-06	3.14E-04	51	137	531	2477	15610945, 15608621, 15609890, 15608622, 15609910, 15609168, 57117042, 57116735, 15610982, 15610706, 15607776, 15609566, 15609565, 15608379, 15610936, 15607644, 15607641, 15610733, 15610937, 15610090, 15607688, 15610102, 15608157, 15609315, 15608437, 15608158, 15607782, 15607784, 15609282, 15610974, 15609917, 15610926, 15607196, 15608114, 15610927, 15610065, 15609258, 15610056, 15607504, 15608833, 15609359, 15609357, 15610553, 15610554, 15610384, 15610077, 15610072, 15609674, 15608794, 15608341, 15610528
6099	tricarboxylic acid cycle	BiologicalProcess	2.02E-05	5.78E-04	7	7	531	2477	15610475, 15609591, 15608380, 57116903, 161352467, 57116704, 15607208
6084	acetyl-CoA metabolic process	BiologicalProcess	2.02E-05	5.78E-04	7	7	531	2477	15610475, 15609591, 15608380, 57116903, 161352467, 57116704, 15607208
46356	acetyl-CoA catabolic process	BiologicalProcess	2.02E-05	5.78E-04	7	7	531	2477	15610475, 15609591, 15608380, 57116903, 161352467, 57116704, 15607208
16043	cellular component organization	BiologicalProcess	2.41E-05	6.74E-04	42	109	531	2477	15609890, 15608621, 15609168, 15609910, 15607196, 15610065, 15610019, 57117042, 15610982, 15609258, 15610706, 15610056, 15607504, 15608833, 15609566, 15609565, 15609359, 15609357, 15608379, 15610553, 15610554, 15610936, 15607644, 15610733, 15607641, 15610090, 15610937, 15607688, 15610384, 15610077, 15610123, 15610102, 15608437, 15609315, 15608157, 15608158, 15610072, 15609674, 15608794, 15610974, 15608341, 15609917
8652	cellular amino acid biosynthetic process	BiologicalProcess	3.10E-05	8.00E-04	19	36	531	2477	15607330, 15609890, 15607641, 15609910, 15608219, 15608741, 15609347, 345462027, 57117044, 15608474, 57117042, 15608435, 15609675, 15608794, 15608749, 15610974, 15609863, 57116972, 15609357
9309	amine biosynthetic process	BiologicalProcess	3.10E-05	8.00E-04	19	36	531	2477	15607330, 15609890, 15607641, 15609910, 15608219, 15608741, 15609347, 345462027, 57117044, 15608474, 57117042, 15608435, 15609675, 15608794, 15608749, 15610974, 15609863, 57116972, 15609357
9109	coenzyme catabolic process	BiologicalProcess	3.13E-05	8.00E-04	8	9	531	2477	15607913, 15610475, 15609591, 15608380, 57116903, 161352467, 57116704, 15607208
22607	cellular component assembly	BiologicalProcess	8.51E-05	2.01E-03	40	107	531	2477	15609890, 15608621, 15609168, 15609910, 15607196, 15610065, 57117042, 15610982, 15609258, 15610706, 15610056, 15607504, 15608833, 15609566, 15609565, 15609359, 15609357, 15608379, 15610553, 15610554, 15610936, 15607644, 15607641, 15610733, 15610090, 15610937, 15607688, 15610384, 15610077, 15610102, 15608437, 15608157, 15609315, 15608158, 15610072, 15609674, 15608794, 15610974, 15608341, 15609917
9060	aerobic respiration	BiologicalProcess	1.31E-04	2.86E-03	7	8	531	2477	15610475, 15609591, 15608380, 57116903, 161352467, 57116704, 15607208
45333	cellular respiration	BiologicalProcess	1.31E-04	2.86E-03	7	8	531	2477	15610475, 15609591, 15608380, 57116903, 161352467, 57116704, 15607208
10039	response to iron ion	BiologicalProcess	1.31E-04	2.86E-03	7	8	531	2477	15607825, 15609168, 15610733, 15610360, 15608613, 15609013, 15607151
9308	amine metabolic process	BiologicalProcess	1.33E-04	2.86E-03	26	61	531	2477	15609890, 15609910, 15607551, 15608741, 448824753, 57117044, 15609347, 57117042, 57116987, 15609357, 15607330, 15607641, 15608219, 57117031, 15610384, 345462027, 15608474, 15608435, 15609675, 15608749, 15608794, 15610974, 15609863, 57116972, 15608674, 15609917
71767	mycolic acid metabolic process	BiologicalProcess	1.99E-04	3.93E-03	10	15	531	2477	15610936, 15607782, 15607644, 15608621, 15607784, 15607776, 15608622, 15608114, 15610528, 57116735
71768	mycolic acid biosynthetic process	BiologicalProcess	1.99E-04	3.93E-03	10	15	531	2477	15610936, 15607782, 15607644, 15608621, 15607784, 15607776, 15608622, 15608114, 15610528, 57116735
51186	cofactor metabolic process	BiologicalProcess	2.74E-04	5.33E-03	28	70	531	2477	57116993, 57116990, 15609639, 15608486, 15609591, 15608283, 15607383, 161352467, 15609848, 15608313, 15610728, 15609521, 15608974, 15608833, 57116704, 15607913, 15610475, 15608734, 15607688, 57116903, 15610077, 15610102, 15607208, 15609381, 15608769, 15608380, 15608530, 15609743
32787	monocarboxylic acid metabolic process	BiologicalProcess	7.87E-04	1.46E-02	26	67	531	2477	15608621, 15608622, 15607382, 15608114, 15607383, 448824754, 15609322, 15610961, 57116734, 57116735, 15608974, 15607776, 15607609, 15610936, 15607644, 15608630, 15610475, 15608631, 15608576, 15610072, 15607208, 15610525, 15607782, 15609382, 15607784, 15610528
6091	generation of precursor metabolites and energy	BiologicalProcess	8.45E-04	1.54E-02	10	17	531	2477	15610475, 15609591, 15608576, 15608380, 15607504, 15608086, 57116903, 161352467, 57116704, 15607208

44249	cellular biosynthetic process	BiologicalProcess	1.12E-03	1.95E-02	70	236	531	2477	15608621, 15609890, 57116990, 15608622, 15609910, 15609324, 57117081, 448824754, 57117044, 57117042, 15609848, 15609422, 57116735, 15610225, 15609521, 15607873, 15607776, 15610936, 15607644, 57117051, 15608734, 15608576, 15610363, 15607641, 15610090, 15607688, 15608219, 15610870, 345462027, 15610102, 15608437, 15609315, 15608474, 15608157, 15608435, 15607782, 15609382, 15607784, 15610974, 15608769, 15609863, 15608674, 15610188, 15608530, 15609639, 15608486, 15607382, 15610926, 15608741, 15608114, 15610927, 15610019, 15609348, 15609347, 15610961, 15608313, 15608833, 15609357, 15607609, 15607330, 15607475, 15610072, 15609675, 15610525, 15608794, 15610717, 15608749, 57116972, 15610528, 15609743
44238	primary metabolic process	BiologicalProcess	1.19E-03	2.05E-02	101	364	531	2477	15609910, 15609324, 15609322, 57117044, 57116734, 57117042, 57116735, 15610225, 15607873, 15608086, 15610936, 57117051, 15608734, 15607491, 15610733, 345462027, 15610870, 15608157, 15608474, 15609315, 15607208, 15609863, 15608674, 15608530, 15609917, 15607551, 15607382, 15608114, 15607383, 15610019, 15609348, 15609347, 15610961, 15609834, 15608974, 15608833, 15610553, 57117031, 15609139, 15608794, 15608964, 15608621, 15609890, 57116993, 57116990, 15608622, 15609168, 57117081, 15609069, 448824754, 448824753, 15609422, 15610704, 15610706, 15609234, 15607776, 57116987, 15608399, 15607644, 15608576, 15607641, 15610090, 15608219, 15610102, 15608437, 15608435, 15609249, 15608386, 15607782, 15609382, 15607784, 15609246, 15608769, 15610974, 15608380, 15610188, 15610926, 15608741, 15610065, 15610927, 15607148, 15610121, 15607504, 15609357, 15607609, 15607913, 15607330, 15610475, 15607475, 15610384, 15610382, 448824785, 15610123, 15610072, 15609675, 15610525, 15610717, 15608749, 57116972, 15611050, 15610528
70589	cellular component macromolecule biosynthetic process	BiologicalProcess	1.76E-03	2.90E-02	12	24	531	2477	15610936, 15607782, 15607644, 15608621, 15607784, 15607776, 15608622, 15610926, 15610927, 15608114, 15610528, 57116735
10382	cellular cell wall macromolecule metabolic process	BiologicalProcess	1.76E-03	2.90E-02	12	24	531	2477	15610936, 15607782, 15607644, 15608621, 15607784, 15607776, 15608622, 15610926, 15610927, 15608114, 15610528, 57116735
44038	cell wall macromolecule biosynthetic process	BiologicalProcess	1.76E-03	2.90E-02	12	24	531	2477	15610936, 15607782, 15607644, 15608621, 15607784, 15607776, 15608622, 15610926, 15610927, 15608114, 15610528, 57116735
9066	aspartate family amino acid metabolic process	BiologicalProcess	1.95E-03	3.17E-02	8	13	531	2477	15609890, 15609863, 15609910, 57117031, 15608219, 15610384, 15609347, 15608435
9059	macromolecule biosynthetic process	BiologicalProcess	2.03E-03	3.19E-02	17	40	531	2477	15610936, 15608621, 15607644, 57117051, 15608622, 15610926, 15608114, 15610927, 15610019, 15608437, 57116735, 15607782, 15607784, 15607776, 15608674, 15610188, 15610528
34645	cellular macromolecule biosynthetic process	BiologicalProcess	2.03E-03	3.19E-02	17	40	531	2477	15610936, 15608621, 15607644, 57117051, 15608622, 15610926, 15608114, 15610927, 15610019, 15608437, 57116735, 15607782, 15607784, 15607776, 15608674, 15610188, 15610528
9058	biosynthetic process	BiologicalProcess	2.07E-03	3.19E-02	71	245	531	2477	15608621, 15609890, 57116990, 15608622, 15609910, 15609324, 57117081, 448824754, 57117044, 57117042, 15609848, 15609422, 57116735, 15610225, 15609521, 15607873, 15607776, 15610936, 15607644, 57117051, 15608734, 15608576, 15610363, 15607641, 15610090, 15607688, 15608219, 15610870, 345462027, 15610102, 15608437, 15609315, 15608474, 15608157, 15608435, 15607782, 15609382, 15607784, 15610974, 15608769, 15609863, 15608674, 15610188, 15608530, 15609639, 15608486, 15607382, 15610926, 15608741, 15610065, 15608114, 15610927, 15610019, 15609348, 15609347, 15610961, 15608313, 15608833, 15609357, 15607609, 15607330, 15607475, 15610072, 15609675, 15610525, 15608794, 15610717, 15608749, 57116972, 15610528, 15609743
10035	response to inorganic substance	BiologicalProcess	2.38E-03	3.43E-02	15	34	531	2477	15609045, 15609778, 15607491, 15609436, 15609168, 15610360, 15610733, 15608613, 15610870, 15609013, 15609495, 15607331, 15610225, 15607825, 15607151
9116	nucleoside metabolic process	BiologicalProcess	2.39E-03	3.43E-02	9	16	531	2477	15607644, 15607475, 15609834, 15608769, 15608974, 15610384, 15610102, 15608530, 15610528
34641	cellular nitrogen compound metabolic process	BiologicalProcess	2.40E-03	3.43E-02	51	166	531	2477	15609890, 57116993, 57116990, 15609910, 57117081, 448824753, 57117044, 57117042, 15607873, 15608399, 15607644, 57117051, 15608734, 15607641, 15610733, 15608219, 15610102, 345462027, 15608157, 15608474, 15608437, 15608435, 15608386, 15608769, 15610974, 15609863, 15608674, 15610188, 15608530, 15609917, 15607551, 15608741, 15609348, 15609347, 15607148, 15610728, 15609834, 15608974, 15608833, 15609357, 15610553, 15607330, 15607475, 57117031, 15610384, 15610123, 15609675, 15608749, 15608794, 57116972, 15610528
43648	dicarboxylic acid metabolic process	BiologicalProcess	2.64E-03	3.74E-02	10	19	531	2477	15609675, 15609890, 15608749, 15610974, 15610363, 15609863, 15609910, 15608741, 161352467, 15609635
44036	cell wall macromolecule metabolic process	BiologicalProcess	2.74E-03	3.79E-02	12	25	531	2477	15610936, 15607782, 15607644, 15608621, 15607784, 15607776, 15608622, 15610926, 15610927, 15608114, 15610528, 57116735
15980	energy derivation by oxidation of organic compounds	BiologicalProcess	2.94E-03	3.93E-02	7	11	531	2477	15610475, 15609591, 15608380, 57116903, 161352467, 57116704, 15607208
46128	purine ribonucleoside metabolic process	BiologicalProcess	2.94E-03	3.93E-02	7	11	531	2477	15607644, 15608769, 15608974, 15610384, 15610102, 15608530, 15610528
42278	purine nucleoside metabolic process	BiologicalProcess	2.94E-03	3.93E-02	7	11	531	2477	15607644, 15608769, 15608974, 15610384, 15610102, 15608530, 15610528
6631	fatty acid metabolic process	BiologicalProcess	3.40E-03	4.49E-02	18	45	531	2477	15610936, 15608621, 15607644, 15608622, 15607382, 15607383, 15608114, 15609322, 15610961, 15610072, 57116735, 15610525, 15607782, 15609382, 15607784, 15607776, 15610528, 15607609
3674	molecular_function	MolecularFunction	2.57E-05	7.02E-04	181	668	531	2477	15610945, 15609910, 15609324, 15608283, 15609322, 57117044, 15609848, 57117042, 57116734, 15610226, 15610225, 15609521, 15607873, 15608086, 15610936, 57117051, 15608154, 15608734, 15610363, 15610733, 15610937, 15607688, 15610736, 15610870, 15608295, 345462027, 15609315, 15608474, 15608157, 15608158, 15607208, 15609863, 15608674, 15609917, 15610546, 15608530, 15610359, 15609639, 15610764, 15608486, 15609591, 15607551, 15607196, 15607382, 57117131, 15607383, 15610019, 15609348, 15608112, 15609347, 57116956, 161352467, 15609834, 15608974, 15609296, 15608833, 15610553, 15607548, 15611017, 15610554, 57117031, 15609339, 15608958, 15608613, 15609528, 15609139, 57117125, 15609840, 15608794, 448824735, 15608964, 15608071, 15609632, 15609635, 15609743, 57116993, 15609890, 15608621, 57116990, 15609168, 15608622, 15607840, 15607364, 15609069, 57117081, 15610782, 448824754, 448824753, 15608424, 15609422, 15610982, 15610705, 15608234, 15610704, 15610706, 15609234, 15607776, 15610985, 15607573, 15610269, 15609566, 15609565, 15610988, 57116987, 15608399, 57116704, 15608379, 15608043, 15609613, 15608576, 15607641, 15608219, 15608776, 15610102, 15609760, 15608435, 15609366, 15607581, 15607586, 15608050, 15610188, 15607151, 15609045, 15607900, 15610416, 15610417, 15607148, 15609258, 15610728, 15609352, 15610056, 15610121, 15607504, 15609359, 15607603, 15609357, 15607609, 15610421, 15607330, 15607913, 15607475, 15610475, 15607998, 57116903, 15610384, 15610077, 15610123, 448824785, 15610072, 15609675, 15610995, 15610525, 15609674, 15609677, 15608749, 15610717, 15610132, 448824781, 15608341, 15610814, 15609220, 15607279, 57116972, 15611050, 15607616, 15610812, 15609670, 15610528
3824	catalytic activity	MolecularFunction	1.08E-05	3.32E-04	134	461	531	2477	15610945, 15609910, 15608283, 15609324, 15609322, 57117044, 57116734, 57117042, 15610226, 15610225, 15609521, 15607873, 15608086, 15610936, 15608154, 15608734, 15610363, 15610937, 15607688, 15610736, 15610870, 345462027, 15609315, 15608474, 15608157, 15608158, 15607208, 15609863, 15608674, 15609917, 15610546, 15608530, 15609639, 15610764, 15608486, 15609591, 15607551, 15607382, 57117131, 15607383, 15608112, 15609347, 15608218, 15609834, 15608974, 15608833, 15607548, 57117031, 15608958, 15608613, 15609528, 15609139, 57117125, 15608794, 448824735, 15608071, 15609632, 15609743, 57116993, 15609890, 15608621, 57116990, 15608622, 15609069, 57117081, 15610782, 448824754, 448824753, 15608424, 15609422, 15610982, 15610705, 15610704, 15610706, 15609234, 15607776, 15607573, 15609566, 15609565, 57116987, 57116704, 15608399, 15607644, 15608576, 15607641, 15608219, 15610102, 15608435, 15609249, 15608386, 15607782, 15608980, 15609382, 15609204, 15610974, 15608769, 15608380, 15608050, 15610188, 15607151, 15609045, 15610416, 15610417, 15607148, 15609352, 15610121, 15607504, 15609359, 15607603, 15609357, 15607609, 15607913, 15607330, 15610421, 15610475, 15607475, 15610384, 57116903, 15610077, 448824785, 15610072, 15609675, 15610525, 15609674, 15609677, 15610717, 15608749, 15610132, 448824781, 15608341, 57116972, 15607279, 15611050, 15610528
5488	binding	MolecularFunction	7.25E-05	1.74E-03	118	410	531	2477	15609910, 15608283, 57117044, 15609848, 15610226, 15607873, 15610936, 57117051, 15610733, 345462027, 15608295, 15608157, 15608474, 15609315, 15608158, 15607208, 15610359, 15610764, 15609591, 15607551, 57117131, 15607196, 15610019, 15609348, 161352467, 57116956, 15609347, 15609834, 15608974, 15609296, 15607548, 15610553, 15610554, 15611017, 57117031, 15608613, 15609339, 15609528, 15609840, 448824735, 15608964, 15608071, 15609635, 15608621, 57116993, 15608622, 15609168, 15607840, 15607364, 15609069, 15610782, 448824753, 15608424, 15610982, 15610705, 15608234, 15610704, 15607776, 15610985, 15607573, 15610269, 15609566, 15609565, 15610988, 15608399, 15608379, 15608043, 15609613, 15608576, 15607641, 15608776, 15609760, 15608435, 15609381, 15607782, 15607825, 15609382, 15607784, 15610974, 15609246, 15608769, 15607581, 15607586, 15610188, 15609045, 15607900, 15610416, 15610417, 15607148, 15609258, 15610728, 15609352, 15610056, 15610121, 15607504, 15607603, 15609357, 15607330, 15610421, 15610475, 15607998, 15610384, 15610077, 448824785, 15610123, 15609675, 15610995, 15609677, 15608749, 15610132, 448824781, 15608341, 57116972, 15609220, 15610814, 15610812, 15607616, 15609670
16491	oxidoreductase activity	MolecularFunction	8.15E-07	4.45E-05	39	88	531	2477	15609045, 15608621, 15608486, 15609591, 15608622, 15609910, 15607383, 15609069, 15608112, 161352467, 57117042, 15610982, 15609352, 15610704, 15610706, 15607573, 15609566, 15609565, 15607603, 57116704, 15607609, 15607548, 15610475, 15607641, 57116903, 15609528, 15609139, 15607208, 15609677, 15608980, 15610132, 448824781, 15608380, 15607279, 15609632, 15611050, 15610188, 15609917, 15610546
16614	oxidoreductase activity, acting on CH-OH group of donors	MolecularFunction	4.35E-05	1.09E-03	12	18	531	2477	15608621, 15610475, 15608980, 15610132, 15608380, 15607383, 15610546, 15609139, 15607609, 57117042, 15607548, 15607208
16616	oxidoreductase activity, acting on the CH-OH group of donors, NAD or NADP as acceptor	MolecularFunction	1.39E-04	2.93E-03	11	17	531	2477	15608621, 15610475, 15608980, 15610132, 15608380, 15607383, 15610546, 15609139, 15607609, 57117042, 15607208

16829	lyase activity	MolecularFunction	1.15E-04	2.67E-03	23	51	531	2477	15607330, 15609890, 15607382, 15607688, 15608219, 15608613, 15609347, 161352467, 15608424, 57116734, 15608435, 15609675, 15610525, 15609674, 15609677, 15608749, 15610717, 15610974, 15607776, 15607504, 57116972, 15608530, 15609743
16835	carbon-oxygen lyase activity	MolecularFunction	4.17E-04	7.96E-03	13	24	531	2477	15607330, 15609890, 15607382, 15608613, 15608424, 15608435, 15610525, 15609675, 15609674, 15609677, 15610974, 15607776, 57116972
16903	oxidoreductase activity, acting on the aldehyde or oxo group of donors	MolecularFunction	9.23E-04	1.66E-02	8	12	531	2477	15609352, 15609591, 448824781, 57116903, 15609632, 15607603, 161352467, 57116704
42802	identical protein binding	MolecularFunction	1.78E-04	3.62E-03	38	103	531	2477	15609045, 15607900, 57116993, 15608621, 57117131, 15608283, 15609069, 448824753, 15609347, 15608424, 15609848, 15610982, 15610226, 15609258, 15610705, 15608234, 15608974, 15610121, 15609566, 15610988, 15607603, 15607330, 15610475, 15608576, 15607998, 15609339, 15608295, 345462027, 15608435, 15607208, 15610132, 15610974, 15608071, 15607581, 57116972, 15610812, 15607616, 15609670
42803	protein homodimerization activity	MolecularFunction	1.78E-04	3.62E-03	38	103	531	2477	15609045, 15607900, 57116993, 15608621, 57117131, 15608283, 15609069, 448824753, 15609347, 15608424, 15609848, 15610982, 15610226, 15609258, 15610705, 15608234, 15608974, 15610121, 15609566, 15610988, 15607603, 15607330, 15610475, 15608576, 15607998, 15609339, 15608295, 345462027, 15608435, 15607208, 15610132, 15610974, 15608071, 15607581, 57116972, 15610812, 15607616, 15609670
43167	ion binding	MolecularFunction	2.74E-03	3.79E-02	41	128	531	2477	15609045, 15610764, 15609591, 15610782, 57117044, 161352467, 15608424, 15609848, 15610982, 15609258, 15607148, 15610728, 15608234, 15610704, 15609834, 15608974, 15610121, 15607504, 15607573, 15609357, 15608379, 15608043, 15610554, 15610475, 15607641, 57117031, 448824785, 345462027, 15609315, 15608474, 15608157, 15608158, 15607208, 15609675, 448824735, 15608749, 15608071, 448824781, 15608341, 15609220, 15609635
43169	cation binding	MolecularFunction	2.32E-03	3.43E-02	41	127	531	2477	15609045, 15610764, 15609591, 15610782, 57117044, 161352467, 15608424, 15609848, 15610982, 15609258, 15607148, 15610728, 15608234, 15610704, 15609834, 15608974, 15610121, 15607504, 15607573, 15609357, 15608379, 15608043, 15610554, 15610475, 15607641, 57117031, 448824785, 345462027, 15609315, 15608474, 15608157, 15608158, 15607208, 15609675, 448824735, 15608749, 15608071, 448824781, 15608341, 15609220, 15609635
46872	metal ion binding	MolecularFunction	2.32E-03	3.43E-02	41	127	531	2477	15609045, 15610764, 15609591, 15610782, 57117044, 161352467, 15608424, 15609848, 15610982, 15609258, 15607148, 15610728, 15608234, 15610704, 15609834, 15608974, 15610121, 15607504, 15607573, 15609357, 15608379, 15608043, 15610554, 15610475, 15607641, 57117031, 448824785, 345462027, 15609315, 15608474, 15608157, 15608158, 15607208, 15609675, 448824735, 15608749, 15608071, 448824781, 15608341, 15609220, 15609635
46983	protein dimerization activity	MolecularFunction	5.16E-05	1.27E-03	40	105	531	2477	15609045, 15607900, 57116993, 15608621, 57117131, 15608283, 15609069, 15609347, 448824753, 15608424, 15609848, 15610982, 15610226, 15609258, 15607148, 15610705, 15608234, 15608974, 15610121, 15609566, 15610988, 15607603, 15607330, 15610475, 15608576, 15607998, 15609339, 15608295, 345462027, 15608435, 15607208, 448824735, 15610132, 15610974, 15608071, 15607581, 57116972, 15610812, 15607616, 15609670
48037	cofactor binding	MolecularFunction	1.07E-03	1.90E-02	16	35	531	2477	15609045, 15608622, 15609910, 15607364, 15610384, 448824753, 15608295, 57116956, 57117044, 15608435, 15609677, 15609352, 15608341, 57116972, 15607603, 15607548
51287	NAD or NADH binding	MolecularFunction	4.82E-04	9.06E-03	7	9	531	2477	15609045, 15609677, 15609910, 15608622, 15610384, 15607364, 15607603
70404	NADH binding	MolecularFunction	2.09E-03	3.19E-02	4	4	531	2477	15609045, 15609910, 15607364, 15607603
5575	cellular_component	CellularComponent	4.11E-14	4.12E-12	459	1849	531	2477	448824799, 448824796, 15607925, 15607223, 448824790, 15607492, 15607491, 15607938, 15607208, 15607940, 15609282, 15609591, 15609592, 15607388, 15607389, 57117131, 15607382, 15607383, 15607384, 15607385, 15607949, 15609599, 15609494, 57117128, 15607951, 15609296, 15611016, 15609395, 15611017, 15607372, 15607955, 57117125, 15607230, 15607362, 15607364, 448824754, 448824753, 57117015, 15609234, 15607269, 15607456, 15607352, 448824769, 448824762, 448824761, 15607357, 15609249, 15609381, 15608385, 15609382, 15609204, 15609246, 15608380, 15607151, 15607488, 15607148, 15609258, 15609352, 15607144, 15609350, 15609211, 15609359, 15609357, 15607330, 15607475, 448824785, 15607473, 15609229, 448824781, 15607273, 15608284, 15610226, 15607321, 15610223, 15608086, 15608154, 15608155, 15608837, 15610363, 15610360, 15607407, 15608157, 15608091, 15608092, 15610212, 15608097, 15607412, 15610359, 15607411, 15608163, 15608969, 15608262, 15608067, 15608974, 15608273, 15608938, 15610242, 15608964, 15608071, 15608966, 15610236, 15608821, 15610356, 57116993, 15610275, 57116990, 15607840, 15607844, 15607842, 15607841, 57116800, 15610269, 15610472, 57116704, 15608045, 15608992, 15608043, 15610454, 15610595, 15607823, 15608980, 15607825, 57116856, 15608889, 57116810, 57116994, 15607720, 15610391, 57116820, 15608876, 15610593, 15608029, 15610594, 15608024, 15610492, 15607717, 15610475, 15607711, 15610384, 15610579, 15610578, 15610382, 15607807, 57116832, 15607808, 15608036, 57116972, 15610276, 15611050, 15607706, 15610945, 15607530, 15610139, 57116739, 15608519, 15610038, 57116734, 57116735, 15610537, 15610805, 15610041, 15607873, 15610803, 15610532, 15608520, 15610936, 57116727, 15608734, 15610147, 15608527, 15610146, 15608731, 15610406, 15610405, 15610937, 15609191, 15607688, 15610046, 345462027, 15608318, 57116724, 15609198, 15608321, 15608530, 15610546, 15608531, 15607744, 15608111, 15607551, 15608013, 15607847, 15607846, 15610019, 15607651, 15608112, 15607845, 161352467, 15610961, 15608405, 15608313, 15608210, , 15607854, 15610655, 15608401, 15607855, 15610656, 15608214, 15610553, 15608211, 15607548, 15610554, 15610165, 15607549, 15610572, 15610166, 15607564, 15607856, 57116747, 15607859, 15610027, 15608000, 15608613, 15610950, 15610026, 15610032, 15607863, 15607864, 15608605, 15609890, 15609751, 15608621, 57116779, 15608622, 15608767, 15608768, 15608765, 15610438, 15608900, 57116682, 15610705, 15608234, 15607772, 15608372, 15607771, 15610706, 15608238, 15607776, 15608379, 15607644, 15608630, 15609614, 15608631, 15609613, 57116768, 15610005, 15607641, 15610106, 15608219, 15607779, 15608776, 15610104, 15608779, 15609761, 15610305, 15609760, 15608774, 15607782, 15607784, 15607787, 15608769, 15608908, 15608626, 15610835, 15607781, 15607780, 15610410, 15610412, 15609603, 15610926, 15610416, 15610927, 15610417, 15610419, 15610728, 15607795, 15607506, 15610121, 15607504, 15607792, 15607791, 15607893, 15607603, 15607609, 15610421, 15610910, 57116786, 57116903, 15610123, 15607525, 15610913, 15608755, 15610525, 15608749, 15608341, 15610812, 15607616, 15610528, 15608464, 15608659, 15609706, 15608468, 15609910, 15609709, 15609324, 15609322, 57117044, 57117042, 15609848, 57117041, 15608463, 15609661, 15609319, 15609850, 15609665, 57117051, 15609920, 15610733, 15609922, 15609451, 15610736, 15609117, 15610870, 15607186, 15609315, 15609013, 15609115, 15609510, 15609863, 15608674, 15609658, 15609659, 15609917, 15609009, 15610764, 15609639, 15609638, 15608581, 15609006, 15609727, 15609726, 15609142, 15607196, 15610862, 15607195, 15608586, 15607198, 15608587, 15609347, 15608480, 57117019, 15609549, 57117016, 15609546, 15608682, 15608788, 15609542, 15609541, 15609926, 15609433, 15609332, 15609435, 15609436, 15608592, 15609133, 15609337, 15609339, 15610852, 15609139, 15609333, 15609528, 57117036, 15609840, 448824735, 15609632, 15608792, 15608697, 15608696, 15609743, 15610187, 15610182, 15609168, 15609169, 15609167, 15610784, 15609069, 57117081, 57117137, 15610782, 15610088, 15608424, 15610982, 15610986, 57117147, 15610985, 15607573, 15609813, 15609566, 15609565, 15610988, 15610198, 15608576, 15609056, 15608575, 15608574, 15610090, 15607971, 15608432, 15609417, 15608437, 15608435, 15607580, 15607581, 15607586, 448824818, 15609692, 15610188, 15609045, 15608542, 15609303, 15608447, 15608446, 15610065, 15608449, 15608448, 15609976, 15609585, 15607291, 15607290, 57117168, 15609581, 15607999, 15607297, 15610056, 15607296, 15607691, 15607598, 15608451, 15608450, 15610897, 15607998, 15610077, 15607994, 15609982, 15609038, 15610072, 15609675, 15610995, 15610994, 15609579
5618	cell wall	CellularComponent	1.04E-22	2.51E-20	252	737	531	2477	15610945, 15610139, 15608519, 15607873, 15610803, 15610532, 448824790, 15608520, 15610936, 57116727, 15607492, 15608734, 15610147, 15608527, 15607491, 15608731, 15610405, 15610937, 15607938, 57116724, 15607208, 15609198, 15608321, 15609282, 15608531, 15609591, 15609592, 15607388, 15608013, 15607389, 57117131, 15607847, 15607383, 15607384, 15610019, 15607846, 15609599, 161352467, 15610961, 15608405, 15608210, 15608401, 15607855, 15610656, 15611016, 15609395, 15608214, 15610553, 15607548, 15610554, 15610165, 15610166, 15607859, 15607955, 15610027, 15608000, 15608613, 15610026, 15607864, 15608605, 15607230, 15608622, 15608767, 15608768, 15608765, 448824753, 15610705, 15608234, 15607771, 57117015, 15609234, 15608238, 15607776, 15608630, 15609614, 15609613, 15607352, 57116768, 448824769, 15610005, 15610106, 15607779, 15608776, 15610104, 448824762, 15609760, 15608774, 15608385, 15609381, 15607782, 15609382, 15607784, 15607787, 15608380, 15608626, 15607151, 15610835, 15607781, 15607780, 15607488, 15610410, 15609603, 15610416, 15610417, 15610419, 15607148, 15609258, 15610728, 15607144, 15607795, 15607504, 15607792, 15607791, 15609357, 15607609, 15610421, 15607475, 57116786, 15610123, 15607525, 15610525, 15608749, 448824781, 15608341, 15610812, 15607616, 15608464, 15609910, 15609709, 15609322, 57117044, 15608284, 57117042, 15609848, 15610226, 15609661, 15609319, 15607321, 15609850, 15610223, 15609665, 15609920, 15610360, 15610733, 15609451, 15609117, 15608157, 15608091, 15608092, 15609510, 15610212, 15607412, 15608674, 15609917, 15610359, 15607411, 15609009, 15608163, 15609142, 15608969, 15607195, 15607198, 15608587, 15609347, 57117019, 15608682, 15608788, 15608974, 15609541, 15609926, 15609433, 15609435, 15609436, 15608592, 15609133, 15608273, 15609339, 15608958, 15609528, 15609333, 15610242, 57117036, 15609840, 448824735, 15608964, 15608071, 15608966, 15610236, 15608821, 15610356, 57116993, 15610275, 57116990, 15607840, 15607844, 15607842, 15607841, 15608792, 15608696, 15610187, 15610275, 57116990, 15610182, 15609168, 15609169, 15607840, 15609167, 15610784, 15609069, 15610782, 15610985, 15607573, 15610269, 15609565, 15610988, 15608045, 15610198, 15609056, 15608574, 15610090, 15607971, 15609417, 15608437, 15607823, 15607825, 15607581, 15607586, 448824818, 15609692, 15609045, 15609303, 15607720, 15608447, 15608446, 15608449, 15608448, 15609976, 15609585, 15607290, 57117168, 57116820, 15610593, 15610594, 15609581, 15607999, 15608451, 15608450, 15607711, 15607998, 15610384, 15610579, 15610077, 15607994, 15609982, 15610072, 15609675, 15607807, 15607808, 15610276, 15611050

5622	intracellular	CellularComponent	2.37E-14	2.59E-12	145	397	531	2477	15607530, 448824799, 15608468, 448824796, 57116734, 15609661, 15610226, 15607873, 15609850, 15608520, 15610936, 57117051, 15608155, 15609920, 15607491, 15608527, 15610733, 15610360, 15609191, 15608091, 15608092, 15607208, 15607940, 15609198, 15609658, 15609917, 15608531, 15610764, 15609591, 15609727, 15608013, 15607551, 57117131, 15608586, 15607383, 15608587, 15607198, 15607384, 15609599, 161352467, 15610961, 15609549, 57117128, 15608974, 15609541, 15610553, 15608211, 15610554, 15610165, 15610166, 15607564, 15608273, 15609337, 15607955, 15608000, 15608613, 15610026, 57117036, 15608071, 15610336, 15610182, 15609168, 15609169, 15607840, 15609167, 15608768, 15610782, 448824754, 15610088, 15607842, 15607841, 15610982, 15608234, 15607772, 15608238, 15610985, 15610269, 15607269, 15608043, 15607644, 15608630, 15609614, 15609613, 15607352, 15608576, 15610454, 15608574, 15608776, 15607971, 15608432, 15609760, 15608435, 15607823, 15609249, 15609381, 15608980, 15607825, 15609382, 15607787, 15608769, 15608889, 57116810, 15608380, 15607581, 15609692, 15610188, 15607151, 15607781, 15609045, 15610410, 15610416, 15610417, 15610419, 15610391, 15609585, 15610593, 15608876, 15609352, 15610594, 15608029, 15609581, 15609350, 15607792, 15609211, 15607603, 15609357, 15607609, 15610421, 15608450, 57116786, 15607711, 15610579, 15610384, 15608755, 15610995, 15610525, 15609229, 15607807, 15608036, 448824781, 15610994, 15607273, 15611050, 15607616, 15607706
5623	cell	CellularComponent	2.87E-23	8.64E-21	452	1696	531	2477	448824799, 448824796, 15607925, 15607223, 448824790, 15607492, 15607491, 15607938, 15607208, 15607940, 15609282, 15609591, 15609592, 15607388, 15607389, 57117131, 15607382, 15607383, 15607384, 15607385, 15607949, 15609599, 15609494, 57117128, 15607951, 15611016, 15609395, 15607372, 15607955, 57117125, 15607230, 15607362, 15607364, 448824754, 448824753, 57117015, 15609234, 15607269, 15607352, 448824769, 448824762, 448824761, 15607357, 15609249, 15609381, 15608385, 15609382, 15609204, 15609246, 15608380, 15607151, 15607488, 15607148, 15609258, 15609352, 15607144, 15609350, 15609211, 15609359, 15609357, 15607330, 15607475, 448824785, 15607473, 15609229, 448824781, 15607273, 15608284, 15610226, 15607321, 15610223, 15608086, 15608154, 15608155, 15608837, 15610363, 15610360, 15607407, 15608157, 15608091, 15608092, 15610212, 15608097, 15607412, 15610359, 15607411, 15608163, 15608969, 15608262, 15608067, 15608974, 15608273, 15608958, 15610242, 15608071, 15608964, 15608966, 15610236, 15608821, 15610336, 15610275, 57116990, 15607840, 15607844, 15607842, 15607841, 57116800, 15610269, 15610472, 57116704, 15608045, 15608992, 15608043, 15610454, 15610595, 15607823, 15608980, 15607825, 57116856, 15608889, 57116810, 57116994, 15607720, 15610391, 57116820, 15608876, 15610593, 15608029, 15610594, 15608024, 15610492, 15607717, 15610475, 15607711, 15610384, 15610579, 15610578, 15610382, 15607807, 57116832, 15607808, 15608036, 15610276, 15611050, 15607706, 15610945, 15607530, 15610139, 57116739, 15608519, 15610038, 57116734, 57116735, 15610537, 15610805, 15610041, 15607873, 15610803, 15610532, 15608520, 15610936, 57116727, 15608734, 15610147, 15608527, 15610146, 15608731, 15610406, 15610405, 15610937, 15609191, 15607688, 15610046, 345462027, 15608318, 57116724, 15609198, 15608321, 15608530, 15610546, 15608531, 15607744, 15608111, 15607551, 15608013, 15607847, 15607651, 15607846, 15610019, 15607845, 15608112, 161352467, 15610961, 15608405, 15608313, 15608210, , 15607854, 15610655, 15608401, 15607855, 15610656, 15608214, 15610553, 15608211, 15607548, 15610554, 15610165, 15610572, 15610166, 15607564, 15607856, 57116747, 15607859, 15610027, 15608000, 15608613, 15610950, 15610026, 15610032, 15607863, 15607864, 15608605, 15609890, 15609751, 15608621, 57116779, 15608622, 15608767, 15608768, 15608765, 15610438, 15608900, 57116682, 15610705, 15608234, 15607772, 15608372, 15607771, 15610706, 15608238, 15607776, 15608379, 15607644, 15608630, 15609614, 15608631, 15609613, 57116768, 15610005, 15607641, 15610106, 15608219, 15607779, 15608776, 15610104, 15608779, 15609761, 15610305, 15609760, 15608774, 15607782, 15607784, 15607787, 15608769, 15608908, 15608626, 15610835, 15607781, 15607780, 15610410, 15610412, 15609603, 15610926, 15610416, 15610927, 15610417, 15610419, 15610728, 15607795, 15607506, 15610121, 15607504, 15607792, 15607791, 15607893, 15607603, 15607609, 15610421, 15610910, 57116786, 57116903, 15610123, 15607525, 15610913, 15608755, 15610525, 15608749, 15608341, 15610812, 15607616, 15610528, 15608464, 15608659, 15609706, 15608468, 15609910, 15609324, 57117042, 15609848, 57117041, 15608463, 15609661, 15609319, 15609850, 15609665, 15609920, 15610733, 15609922, 15610736, 15610870, 15607186, 15609315, 15609013, 15609115, 15609863, 15608674, 15609658, 15609659, 15609917, 15609009, 15610764, 15609639, 15609638, 15608581, 15609006, 15609727, 15609726, 15609142, 15607196, 15610862, 15607195, 15608586, 15607198, 15608587, 15609347, 15608480, 57117019, 15609549, 57117016, 15609546, 15608682, 15608788, 15609542, 15609541, 15609926, 15609433, 15609332, 15609435, 15609436, 15608592, 15609133, 15609337, 15609339, 15610852, 15609139, 15609333, 15609528, 57117036, 15609840, 448824735, 15609632, 15608697, 15608792, 15608696, 15609743, 15610187, 15610182, 15609168, 15609169, 15609167, 15610784, 15609069, 57117081, 57117137, 15610782, 15610088, 15608424, 15610982, 15610986, 15610985, 15607573, 15609813, 15609566, 15609565, 15610988, 15610198, 15608576, 15609056, 15608575, 15608574, 15610090, 15607971, 15608432, 15609417, 15608437, 15608435, 15607580, 15607581, 15607586, 448824818, 15609692, 15610188, 15609045, 15608542, 15609303, 15608447, 15608446, 15610065, 15608449, 15608448, 15609976, 15609585, 15607291, 15607290, 57117168, 15609581, 15607999, 15607297, 15610056, 15607296, 15607691, 15607598, 15608451, 15608450, 15610897, 15607998, 15610077, 15607994, 15609982, 15609038, 15610072, 15609675, 15610995, 15610994, 15609579
5737	cytoplasm	CellularComponent	6.11E-15	9.18E-13	144	388	531	2477	15607530, 448824799, 15608468, 448824796, 57116734, 15609661, 15610226, 15607873, 15609850, 15608520, 15610936, 57117051, 15608155, 15609920, 15607491, 15608527, 15610733, 15610360, 15609191, 15608091, 15608092, 15607208, 15607940, 15609198, 15609658, 15609917, 15608531, 15610764, 15609591, 15609727, 15608013, 15607551, 57117131, 15608586, 15607383, 15608587, 15607198, 15607384, 15609599, 161352467, 15610961, 15609549, 57117128, 15608974, 15609541, 15608211, 15610554, 15610165, 15610166, 15607564, 15608273, 15609337, 15607955, 15608000, 15608613, 15610026, 57117036, 15608071, 15610336, 15610182, 15609168, 15609169, 15607840, 15609167, 15608768, 15610782, 448824754, 15610088, 15607842, 15607841, 15610982, 15608234, 15607772, 15608238, 15610985, 15610269, 15607269, 15608043, 15607644, 15608630, 15609614, 15609613, 15607352, 15608576, 15610454, 15608574, 15608776, 15607971, 15608432, 15609760, 15608435, 15607823, 15609249, 15609381, 15608980, 15607825, 15609382, 15607787, 15608769, 15608889, 57116810, 15608380, 15607581, 15609692, 15610188, 15607151, 15607781, 15609045, 15610410, 15610416, 15610417, 15610419, 15610391, 15609585, 15610593, 15608876, 15609352, 15610594, 15608029, 15609581, 15609350, 15607792, 15609211, 15607603, 15609357, 15607609, 15610421, 15608450, 57116786, 15607711, 15610579, 15610384, 15608755, 15610995, 15610525, 15609229, 15607807, 15608036, 448824781, 15610994, 15607273, 15611050, 15607616, 15607706
5829	cytosol	CellularComponent	5.95E-14	5.50E-12	137	371	531	2477	15607530, 448824799, 15608468, 448824796, 57116734, 15609661, 15610226, 15607873, 15609850, 15608520, 15610936, 15608155, 15609920, 15607491, 15608527, 15610733, 15610360, 15609191, 15608091, 15608092, 15607208, 15607940, 15609198, 15609658, 15609917, 15608531, 15610764, 15609591, 15609727, 15608013, 15607551, 57117131, 15608586, 15607383, 15608587, 15607198, 15607384, 15609599, 15610961, 15609549, 57117128, 15608974, 15609541, 15608211, 15610554, 15610165, 15610166, 15607564, 15608273, 15609337, 15607955, 15608000, 15608613, 15610026, 57117036, 15608071, 15610336, 15610182, 15609168, 15609169, 15607840, 15609167, 15608768, 15610782, 448824754, 15610088, 15607842, 15607841, 15610982, 15608234, 15607772, 15608238, 15610985, 15610269, 15607269, 15608043, 15607644, 15608630, 15609614, 15609613, 15607352, 15608576, 15610454, 15608574, 15608776, 15607971, 15608432, 15609760, 15608435, 15607823, 15609249, 15609381, 15608980, 15607825, 15609382, 15607787, 15608769, 15608889, 57116810, 15608380, 15607581, 15609692, 15607151, 15607781, 15609045, 15610410, 15610416, 15610417, 15610419, 15610391, 15609585, 15608876, 15610593, 15609352, 15610594, 15608029, 15609581, 15609350, 15607792, 15609211, 15607603, 15609357, 15607609, 15608450, 57116786, 15607711, 15610579, 15610384, 15608755, 15610995, 15610525, 15609229, 15607807, 15608036, 15610994, 15607273, 15611050, 15607616, 15607706
5886	plasma membrane	CellularComponent	3.73E-33	3.67E-30	402	1323	531	2477	448824799, 448824796, 15607925, 15607223, 15607491, 15607938, 15607208, 15607940, 15609282, 15609592, 15607388, 15607389, 57117131, 15607382, 15607383, 15607384, 15607385, 15607949, 15609599, 15609494, 15607951, 15611016, 15609395, 15607955, 15607372, 57117125, 15607230, 15607362, 15607364, 448824753, 57117015, 15609234, 15607269, 15607352, 448824769, 448824762, 448824761, 15607357, 15609249, 15609381, 15608385, 15609382, 15609204, 15609246, 15608380, 15607151, 15609258, 15607148, 15609352, 15609350, 15609359, 15609357, 15607330, 15607475, 448824785, 15607473, 448824781, 15608284, 15607321, 15608086, 15608154, 15608837, 15610363, 15610360, 15607407, 15608157, 15608092, 15610212, 15608097, 15607412, 15607411, 15608163, 15608969, 15608262, 15608067, 15608974, 15608273, 15608958, 15608071, 15608964, 15610236, 15608966, 15608821, 15610336, 57116990, 15610275, 15607840, 15607844, 15607842, 15607841, 57116800, 15610269, 15610472, 57116704, 15608045, 15608043, 15608992, 15610454, 15610595, 15607823, 15608980, 15607825, 57116856, 15608889, 57116810, 57116994, 15607720, 15610391, 57116820, 15608876, 15610593, 15610594, 15608024, 15610492, 15607717, 15610475, 15610384, 15610579, 15610578, 15610382, 15607807, 57116832, 15607808, 15608036, 15610276, 15611050, 15607706, 15610945, 15610139, 57116739, 15610038, 57116734, 57116735, 15610537, 15610805, 15610041, 15607873, 15610803, 15608520, 15610936, 57116727, 15608734, 15610147, 15608527, 15610146, 15608731, 15610406, 15610405, 15610937, 15609191, 15607688, 15610046, 345462027, 15608318, 57116724, 15609198, 15608321, 15608530, 15610546, 15608531, 15607744, 15608111, 15607551, 15608013, 15607847, 15607651, 15610019, 15607845, 15608112, 161352467, 15610961, 15608210, 15608313, 15608405, , 15607854, 15608401, 15610655, 15610656, 15608214, 15607548, 15610553, 15610165, 15610554, 15610572, 15610166, 15607564, 15607856, 15607859, 57116747, 15608613, 15608000, 15610027, 15610950, 15610026, 15610032, 15607863, 15607864, 15608605, 15609890, 15609751, 15608621, 57116779, 15608622, 15608767, 15608768, 15608765, 15610438, 15608900, 57116682, 15610705, 15608234, 15607772, 15608372, 15607771, 15610706, 15608238, 15608379, 15607644, 15608630, 15609614, 15608631, 15609613, 57116768, 15610005, 15607641, 15610106, 15608219, 15607779, 15608776, 15610104, 15608779, 15609761, 15610305, 15609760, 15608774, 15607782, 15607784, 15607787, 15608908, 15608626, 15607781, 15610410, 15610412, 15610926, 15610416, 15610927, 15610419, 15610728, 15607795, 15607506, 15610121, 15607504, 15607792, 15607791, 15607893, 15607603, 15607609, 15610421, 15610910, 57116786, 57116903, 15610123, 15607525, 15610913, 15608755, 15610525, 15608749, 15608341, 15610812, 15607616, 15610528, 15608464, 15608659, 15609706, 15608468, 15609910, 15609324, 57117042, 15609848, 57117041, 15608463, 15609661, 15609319, 15609850, 15609665, 15609920, 15610733, 15609922, 15610736, 15610870, 15607186, 15609315, 15609013, 15609115, 15609863, 15608674, 15609658, 15609659, 15609917, 15609009, 15610764, 15609639, 15609638, 15608581, 15609006, 15609727, 15609726, 15609142, 15607196, 15610862, 15607195, 15608586, 15607198, 15608587, 15608480, 57117019, 57117016, 15609546, 15608682, 15608788, 15609542, 15609433, 15609332, 15609435, 15609436, 15608592, 15609133, 15609337, 15609339, 15610852, 15609139, 15609333, 57117036, 15609840, 448824735, 15609632, 15608697, 15608792, 15608696, 15609743, 15610182, 15609168, 15609169, 15609167, 57117137, 57117081, 15610782, 15610088, 15608424, 15610982, 15610986, 15610985, 15609813, 15607573, 15609566, 15610988, 15609565, 15608576, 15608575, 15609056, 15610090, 15608574, 15607971, 15608432, 15609417, 15608437, 15608435, 15607580, 15607581, 448824818, 15607586, 15609692, 15610188, 15608542, 15609045, 15608447, 15610065, 15608446, 15608449, 15609976, 15608448, 15607291, 15609585, 57117168, 15607290, 15609581, 15607999, 15607297, 15610056, 15607296, 15607691, 15607598, 15608451, 15608450, 15610897, 15610077, 15609982, 15609038, 15610072, 15609675, 15610995, 15610994, 15609579

16020	membrane	CellularComponent	6.10E-33	3.67E-30	402	1325	531	2477	448824799, 448824796, 15607925, 15607223, 15607491, 15607938, 15607208, 15607940, 15609282, 15609592, 15607388, 15607389, 57117131, 15607382, 15607383, 15607384, 15607385, 15607949, 15609599, 15609494, 15607951, 15611016, 15609395, 15607955, 15607372, 57117125, 15607230, 15607362, 15607364, 448824753, 57117015, 15609234, 15607269, 15607352, 448824769, 448824762, 448824761, 15607357, 15609249, 15609381, 15608385, 15609382, 15609204, 15609246, 15608380, 15607151, 15609258, 15607148, 15609352, 15609350, 15609359, 15609357, 15607330, 15607475, 448824785, 15607473, 448824781, 15608284, 15607321, 15608086, 15608154, 15608837, 15610363, 15610360, 15607407, 15608157, 15608092, 15610212, 15608097, 15607412, 15607411, 15608163, 15608969, 15608262, 15608067, 15608974, 15608273, 15608958, 15608071, 15608964, 15610236, 15608966, 15608821, 15610336, 57116990, 15610275, 15607840, 15607844, 15607842, 15607841, 57116800, 15610269, 15610472, 57116704, 15608045, 15608043, 15608992, 15610454, 15610595, 15607823, 15608980, 15607825, 57116856, 15608889, 57116810, 57116994, 15607720, 15610391, 57116820, 15608876, 15610593, 15610594, 15608024, 15610492, 15607717, 15610475, 15610384, 15610579, 15610578, 15610382, 15607807, 57116832, 15607808, 15608036, 15610276, 15611050, 15607706, 15610945, 15610139, 57116739, 15610038, 57116734, 57116735, 15610537, 15610805, 15610041, 15607873, 15610803, 15608520, 15610936, 57116727, 15608734, 15610147, 15608527, 15610146, 15608731, 15610406, 15610405, 15610937, 15609191, 15607688, 15610046, 345462027, 15608318, 57116724, 15609198, 15608321, 15608530, 15610546, 15608531, 15607744, 15608111, 15607551, 15608013, 15607847, 15607651, 15610019, 15607845, 15608112, 161352467, 15610961, 15608210, 15608313, 15608405, , 15607854, 15608401, 15610655, 15610656, 15608214, 15607548, 15610553, 15610165, 15610554, 15610572, 15610166, 15607564, 15607856, 15607859, 57116747, 15608613, 15608000, 15610027, 15610950, 15610026, 15610032, 15607863, 15607864, 15608605, 15609890, 15609751, 15608621, 57116779, 15608622, 15608767, 15608768, 15608765, 15610438, 15608900, 57116682, 15610705, 15608234, 15607772, 15608372, 15607771, 15610706, 15608238, 15608379, 15607644, 15608630, 15609614, 15608631, 15609613, 57116768, 15610005, 15607641, 15610106, 15608219, 15607779, 15608776, 15610104, 15608779, 15609761, 15610305, 15609760, 15608774, 15607782, 15607784, 15607787, 15608908, 15608626, 15607781, 15610410, 15610412, 15610926, 15610416, 15610927, 15610419, 15610728, 15607795, 15607506, 15610121, 15607504, 15607792, 15607791, 15607893, 15607603, 15607609, 15610421, 15610910, 57116786, 57116903, 15610123, 15607525, 15610913, 15608755, 15610525, 15608749, 15608341, 15610812, 15607616, 15610528, 15608464, 15608659, 15609706, 15608468, 15609910, 15609324, 57117042, 15609848, 57117041, 15608463, 15609661, 15609319, 15609850, 15609665, 15609920, 15610733, 15609922, 15610736, 15610870, 15607186, 15609315, 15609013, 15609115, 15609863, 15608674, 15609658, 15609659, 15609917, 15609009, 15610764, 15609639, 15609638, 15608581, 15609006, 15609727, 15609726, 15609142, 15607196, 15610862, 15607195, 15607198, 15608587, 15608480, 57117019, 57117016, 15609546, 15608682, 15608788, 15609542, 15609433, 15609332, 15609435, 15609436, 15608592, 15609133, 15609337, 15609339, 15610852, 15609139, 15609333, 57117036, 15609840, 448824735, 15609632, 15608697, 15608792, 15608696, 15609743, 15610182, 15609168, 15609169, 15609167, 57117137, 57117081, 15610782, 15610088, 15608424, 15610982, 15610986, 15610985, 15609813, 15607573, 15609566, 15610988, 15609565, 15608576, 15608575, 15609056, 15610090, 15608574, 15607971, 15608432, 15609417, 15608437, 15608435, 15607580, 15607581, 448824818, 15607586, 15609692, 15610188, 15608542, 15609045, 15608447, 15610065, 15608446, 15608449, 15609976, 15608448, 15607291, 15609585, 57117168, 15607290, 15609581, 15607999, 15607297, 15610056, 15607296, 15607691, 15607598, 15608451, 15608450, 15610897, 15610077, 15609982, 15609038, 15610072, 15609675, 15610995, 15610994, 15609579
30312	external encapsulating structure	CellularComponent	2.17E-22	4.35E-20	252	740	531	2477	15610945, 15610139, 15608519, 15607873, 15610803, 15610532, 448824790, 15608520, 15610936, 57116727, 15607492, 15608734, 15610147, 15608527, 15607491, 15608731, 15610405, 15610937, 15607938, 57116724, 15607208, 15609198, 15608321, 15609282, 15608531, 15609591, 15609592, 15607388, 15608013, 15607389, 57117131, 15607847, 15607383, 15607384, 15610019, 15607846, 15609599, 161352467, 15610961, 15608405, 15608210, 15608401, 15607855, 15610656, 15611016, 15609395, 15608214, 15610553, 15607548, 15610554, 15610165, 15610166, 15607859, 15607955, 15610027, 15608000, 15608613, 15610026, 15607864, 15608605, 15607230, 15608622, 15608767, 15608768, 15608765, 448824753, 15610705, 15608234, 15607771, 57117015, 15609234, 15608238, 15607776, 15608630, 15609614, 15609613, 15607352, 57116768, 448824769, 15610005, 15610106, 15607779, 15608776, 15610104, 448824762, 15609760, 15608774, 15608385, 15609381, 15607782, 15609382, 15607784, 15607787, 15608380, 15608626, 15607151, 15610835, 15607781, 15607780, 15607488, 15610410, 15609603, 15610416, 15610417, 15610419, 15607148, 15609258, 15610728, 15607144, 15607795, 15607504, 15607792, 15607791, 15609357, 15607609, 15610421, 15607475, 57116786, 15610123, 15607525, 15610525, 15608749, 448824781, 15608341, 15610812, 15607616, 15608464, 15609910, 15609709, 15609322, 57117044, 15608284, 57117042, 15609848, 15610226, 15609661, 15609319, 15607321, 15609850, 15610223, 15609665, 15609920, 15610360, 15610733, 15609451, 15609117, 15608157, 15608091, 15608092, 15609510, 15610212, 15607412, 15608674, 15609917, 15610359, 15607411, 15609009, 15608163, 15609142, 15608969, 15607195, 15607198, 15608587, 15609347, 57117019, 15608682, 15608788, 15608974, 15609541, 15609926, 15609433, 15609435, 15609436, 15608592, 15609133, 15608273, 15609339, 15608958, 15609528, 15609333, 15610242, 57117036, 15609840, 448824735, 15608964, 15608071, 15608966, 15610236, 15609632, 15608792, 15608696, 15610187, 15610275, 57116990, 15610182, 15609168, 15609169, 15607840, 15609167, 15610784, 15609069, 15610782, 15610985, 15607573, 15610269, 15609565, 15610988, 15608045, 15610198, 15609056, 15608574, 15610090, 15607971, 15609417, 15608437, 15607823, 15607825, 15607581, 15607586, 448824818, 15609692, 15609045, 15609303, 15607720, 15608447, 15608446, 15608449, 15608448, 15609976, 15609585, 15607290, 57117168, 57116820, 15610593, 15610594, 15609581, 15607999, 15608451, 15608450, 15607711, 15607998, 15610384, 15610579, 15610077, 15607994, 15609982, 15610072, 15609675, 15607807, 15607808, 15610276, 15611050
44424	intracellular part	CellularComponent	2.37E-14	2.59E-12	145	397	531	2477	15607530, 448824799, 15608468, 448824796, 57116734, 15609661, 15610226, 15607873, 15609850, 15608520, 15610936, 57117051, 15608155, 15609920, 15607491, 15608527, 15610733, 15610360, 15609191, 15608091, 15608092, 15607208, 15607940, 15609198, 15609658, 15609917, 15608531, 15610764, 15609591, 15609727, 15608013, 15607551, 57117131, 15608586, 15607383, 15608587, 15607198, 15607384, 15609599, 161352467, 15610961, 15609549, 57117128, 15608974, 15609541, 15610553, 15608211, 15610554, 15610165, 15610166, 15607564, 15608273, 15609337, 15607955, 15608000, 15608613, 15610026, 57117036, 15608071, 15610336, 15610182, 15609168, 15609169, 15607840, 15609167, 15608768, 15610782, 448824754, 15610088, 15607842, 15607841, 15610982, 15608234, 15607772, 15608238, 15610985, 15610269, 15607269, 15608043, 15607644, 15608630, 15609614, 15609613, 15607352, 15608576, 15610454, 15608574, 15608776, 15607971, 15608432, 15609760, 15608435, 15607823, 15609249, 15609381, 15608980, 15607825, 15609382, 15607787, 15608769, 15608889, 57116810, 15608380, 15607581, 15609692, 15610188, 15607151, 15607781, 15609045, 15610410, 15610416, 15610417, 15610419, 15610391, 15609585, 15610593, 15608876, 15609352, 15610594, 15608029, 15609581, 15609350, 15607792, 15609211, 15607603, 15609357, 15607609, 15610421, 15608450, 57116786, 15607711, 15610579, 15610384, 15608755, 15610995, 15610525, 15609229, 15607807, 15608036, 448824781, 15610994, 15607273, 15611050, 15607616, 15607706
44444	cytoplasmic part	CellularComponent	3.61E-15	6.21E-13	144	386	531	2477	15607530, 448824799, 15608468, 448824796, 57116734, 15609661, 15610226, 15607873, 15609850, 15608520, 15610936, 57117051, 15608155, 15609920, 15607491, 15608527, 15610733, 15610360, 15609191, 15608091, 15608092, 15607208, 15607940, 15609198, 15609658, 15609917, 15608531, 15610764, 15609591, 15609727, 15608013, 15607551, 57117131, 15608586, 15607383, 15608587, 15607198, 15607384, 15609599, 161352467, 15610961, 15609549, 57117128, 15608974, 15609541, 15608211, 15610554, 15610165, 15610166, 15607564, 15608273, 15609337, 15607955, 15608000, 15608613, 15610026, 57117036, 15608071, 15610336, 15610182, 15609168, 15609169, 15607840, 15609167, 15608768, 15610782, 448824754, 15610088, 15607842, 15607841, 15610982, 15608234, 15607772, 15608238, 15610985, 15610269, 15607269, 15608043, 15607644, 15608630, 15609614, 15609613, 15607352, 15608576, 15610454, 15608574, 15608776, 15607971, 15608432, 15609760, 15608435, 15607823, 15609249, 15609381, 15608980, 15607825, 15609382, 15607787, 15608769, 15608889, 57116810, 15608380, 15607581, 15609692, 15610188, 15607151, 15607781, 15609045, 15610410, 15610416, 15610417, 15610419, 15610391, 15609585, 15610593, 15608876, 15609352, 15610594, 15608029, 15609581, 15609350, 15607792, 15609211, 15607603, 15609357, 15607609, 15610421, 15608450, 57116786, 15607711, 15610579, 15610384, 15608755, 15610995, 15610525, 15609229, 15607807, 15608036, 448824781, 15610994, 15607273, 15611050, 15607616, 15607706

44464	cell part	CellularComponent	2.87E-23	8.64E-21	452	1696	531	2477	448824799, 448824796, 15607925, 15607223, 448824790, 15607492, 15607491, 15607938, 15607208, 15607940, 15609282, 15609591, 15609592, 15607388, 15607389, 57117131, 15607382, 15607383, 15607384, 15607385, 15607949, 15609599, 15609494, 57117128, 15607951, 15611016, 15609395, 15607372, 15607955, 57117125, 15607230, 15607362, 15607364, 448824754, 448824753, 57117015, 15609234, 15607269, 15607352, 448824769, 448824762, 448824761, 15607357, 15609249, 15609381, 15608385, 15609382, 15609204, 15609246, 15608380, 15607151, 15607488, 15607148, 15609258, 15609352, 15607144, 15609350, 15609211, 15609359, 15609357, 15607330, 15607475, 448824785, 15607473, 15609229, 448824781, 15607273, 15608284, 15610226, 15607321, 15610223, 15608086, 15608154, 15608155, 15608837, 15610363, 15610360, 15607407, 15608157, 15608091, 15608092, 15610212, 15608097, 15607412, 15610359, 15607411, 15608163, 15608969, 15608262, 15608067, 15608974, 15608273, 15608958, 15610242, 15608071, 15608964, 15608966, 15610236, 15608821, 15610336, 15610275, 57116990, 15607840, 15607844, 15607842, 15607841, 57116800, 15610269, 15610472, 57116704, 15608045, 15608992, 15608043, 15610454, 15610595, 15607823, 15608980, 15607825, 57116856, 15608889, 57116810, 57116994, 15607720, 15610391, 57116820, 15608876, 15610593, 15608029, 15610594, 15608024, 15610492, 15607717, 15610475, 15607711, 15610384, 15610579, 15610578, 15610382, 15607807, 57116832, 15607808, 15608036, 15610276, 15611050, 15607706, 15610945, 15607530, 15610139, 57116739, 15608519, 15610038, 57116734, 57116735, 15610537, 15610805, 15610041, 15607873, 15610803, 15610532, 15608520, 15610936, 57116727, 15608734, 15610147, 15608527, 15610146, 15608731, 15610406, 15610405, 15610937, 15609191, 15607688, 15610046, 345462027, 15608318, 57116724, 15609198, 15608321, 15608530, 15610546, 15608531, 15607744, 15608111, 15607551, 15608013, 15607847, 15607651, 15607846, 15610019, 15607845, 15608112, 161352467, 15610961, 15608405, 15608313, 15608210, , 15607854, 15610655, 15608401, 15607855, 15610656, 15608214, 15610553, 15608211, 15607548, 15610554, 15610165, 15610572, 15610166, 15607564, 15607856, 57116747, 15607859, 15610027, 15608000, 15608613, 15610950, 15610026, 15610032, 15607863, 15607864, 15608605, 15609890, 15609751, 15608621, 57116779, 15608622, 15608767, 15608768, 15608765, 15610438, 15608900, 57116682, 15610705, 15608234, 15607772, 15608372, 15607771, 15610706, 15608238, 15607776, 15608379, 15607644, 15608630, 15609614, 15608631, 15609613, 57116768, 15610005, 15607641, 15610106, 15608219, 15607779, 15608776, 15610104, 15608779, 15609761, 15610305, 15609760, 15608774, 15607782, 15607784, 15607787, 15608769, 15608908, 15608626, 15610835, 15607781, 15607780, 15610410, 15610412, 15609603, 15610926, 15610416, 15610927, 15610417, 15610419, 15610728, 15607795, 15607506, 15610121, 15607504, 15607792, 15607791, 15607893, 15607603, 15607609, 15610421, 15610910, 57116786, 57116903, 15610123, 15607525, 15610913, 15608755, 15610525, 15608749, 15608341, 15610812, 15607616, 15610528, 15608464, 15608659, 15609706, 15608468, 15609910, 15609709, 15609324, 15609322, 57117044, 57117042, 15609848, 57117041, 15608463, 15609661, 15609319, 15609850, 15609665, 57117051, 15609920, 15610733, 15609922, 15609451, 15610736, 15609117, 15610870, 15607186, 15609315, 15609013, 15609115, 15609510, 15609863, 15608674, 15609658, 15609659, 15609917, 15609009, 15610764, 15609639, 15609638, 15608581, 15609006, 15609727, 15609726, 15609142, 15607196, 15610862, 15607195, 15608586, 15607198, 15608587, 15609347, 15608480, 57117019, 15609549, 57117016, 15609546, 15608682, 15608788, 15609542, 15609541, 15609926, 15609433, 15609332, 15609435, 15609436, 15608592, 15609133, 15609337, 15609339, 15610852, 15609139, 15609333, 15609528, 57117036, 15609840, 448824735, 15609632, 15608697, 15608792, 15608696, 15609743, 15610187, 15610182, 15609168, 15609169, 15609167, 15610784, 15609069, 57117081, 57117137, 15610782, 15610088, 15608424, 15610982, 15610986, 15610985, 15607573, 15609813, 15609566, 15609565, 15610988, 15610198, 15608576, 15609056, 15608575, 15608574, 15610090, 15607971, 15608432, 15609417, 15608437, 15608435, 15607580, 15607581, 15607586, 448824818, 15609692, 15610188, 15609045, 15608542, 15609303, 15608447, 15608446, 15610065, 15608449, 15608448, 15609976, 15609585, 15607291, 15607290, 57117168, 15609581, 15607999, 15607297, 15610056, 15607296, 15607691, 15607598, 15608451, 15608450, 15610897, 15607998, 15610077, 15607994, 15609982, 15609038, 15610072, 15609675, 15610995, 15610994, 15609579
45254	pyruvate dehydrogenase complex	CellularComponent	2.09E-03	3.19E-02	4	4	531	2477	15609352, 448824781, 15607603, 161352467

Table S4B. Complete list of PFAM domain and KEGG pathway enriched in the *M. tuberculosis* H37Rv succinylome.

Category	ID	Term	Fold Enrichment	PValue	Count	%	Genes	List Total	Pop Hits	Pop Total	Bonferroni	Benjamini	FDR
PFAM	PF00107	ADH_zinc_N	2.700904159	0.01005	10	1.65	15607291, 15608321, 15610182, 57116779, 15608592, 15610223, 15610862, 15610077, 15610913, 15610961	553	50	7468	0.9999657	0.6808538	14.777
PFAM	PF08240	ADH_N	2.700904159	0.01005	10	1.65	15607291, 15608321, 15610182, 57116779, 15608592, 15610223, 15610862, 15610077, 15610913, 15610961	553	50	7468	0.9999657	0.6808538	14.777
PFAM	PF00378	Enoyl-CoA hydratase/isomerase family	4.501506932	0.00132	8	1.32	15610910, 15610652, 15607772, 57116767, 15607363, 15609816, 15607688, 15608211	553	24	7468	0.7401245	0.1550215	2.0744
PFAM	PF02771	Acyl-CoA dehydrogenase, N-terminal domain	3.858434513	0.00076	10	1.65	15607541, 15610275, 15610410, 15610699, 15607273, 15607296, 15608013, 15608112, 15609926, 15610640	553	35	7468	0.5401269	0.1050363	1.2011
PFAM	PF00378	ECH	3.307229583	0.00071	12	1.98	15610910, 15608210, 15610652, 15607772, 15608111, 57116767, 15607363, 15609816, 15607688, 15608000, 15608045, 15608211	553	49	7468	0.5169596	0.1142104	1.1255
PFAM	PF02771	Acyl-CoA_dh_N	3.259711916	0.00024	14	2.31	15607541, 15610410, 15610198, 15610275, 15608013, 15608112, 15610699, 15607273, 15607296, 15607412, 15607892, 15609926, 15610640, 15609637	553	58	7468	0.2195113	0.0483586	0.3848
PFAM	PF00441	Acyl-CoA dehydrogenase, C-terminal domain	4.309953445	4.3E-06	15	2.48	15607541, 15610275, 15610410, 15610933, 15608486, 15608013, 15607372, 15608112, 15607385, 15610699, 15607273, 15607296, 15610276, 15609926, 15610640	553	47	7468	0.0043656	0.0010932	0.0068
PFAM	PF00441	Acyl-CoA_dh_1	3.751255777	6.8E-07	20	3.3	15607541, 15610275, 15610410, 15610198, 15610933, 15608486, 15608013, 15607372, 15607385, 15608112, 15610699, 15608605, 15607296, 15607273, 15607412, 15610276, 15607892, 15609926, 15610640, 15609637	553	72	7468	0.0006943	0.0002315	0.0011
PFAM	PF02770	Acyl-CoA dehydrogenase, middle domain	4.801607394	3.8E-07	16	2.64	15607541, 15610275, 15610410, 15610198, 15610933, 15608486, 15608013, 15607372, 15608112, 15607385, 15607273, 15607296, 15607412, 15610276, 15609926, 15610640	553	45	7468	0.0003894	0.0001947	0.0006
PFAM	PF02770	Acyl-CoA_dh_M	4.110071547	6.3E-08	21	3.47	15607541, 15610275, 15610410, 15610198, 15610933, 15608486, 15608013, 15607372, 15607385, 15608112, 15610231, 15610706, 15608605, 15607296, 15607273, 15607412, 15610276, 15607892, 15609926, 15610640, 15609637	553	69	7468	6.43E-05	6.43E-05	0.0001
KEGG_PATHWAY	mtu00630	Glyoxylate and dicarboxylate metabolism	3.423762376	0.01021	7	1.16	15608029, 15608036, 15608380, 15608974, 15608613, 15610492, 57116734	303	15	2223	0.9386489	0.0564905	12.635
KEGG_PATHWAY	mtu00400	Phenylalanine, tyrosine and tryptophan biosynthesis	3.260726073	0.00664	8	1.32	15609675, 15609674, 15609677, 15608749, 15610974, 15610363, 15608741, 15609315	303	18	2223	0.8366639	0.0378184	8.3953
KEGG_PATHWAY	mtu00770	Pantothenate and CoA biosynthesis	3.260726073	0.00664	8	1.32	15607330, 15610139, 15608769, 15610736, 57117044, 15610102, 15609347, 15608530	303	18	2223	0.8366639	0.0378184	8.3953
KEGG_PATHWAY	mtu00072	Synthesis and degradation of ketone bodies	4.27970297	0.0027	7	1.16	15607999, 15609640, 15610692, 15607384, 15609641, 15608214, 15608463	303	12	2223	0.5200882	0.0165469	3.4905
KEGG_PATHWAY	mtu00240	Pyrimidine metabolism	2.445544554	0.00262	14	2.31	57117051, 15608837, 15608519, 15609920, 15608767, 15610593, 15607807, 15607808, 57116856, 15607144, 15609834, 15608523, 15610188, 15608520	303	42	2223	0.5099383	0.0164498	3.3927
KEGG_PATHWAY	mtu00190	Oxidative phosphorylation	2.392380542	0.00216	15	2.48	15608451, 15608450, 15609332, 15610764, 15610286, 15610454, 15610285, 15607388, 15607389, 15608447, 15608446, 15609337, 15608449, 15608448, 15609333, 15610121	303	46	2223	0.4445445	0.0142383	2.8053
KEGG_PATHWAY	mtu00480	Glutathione metabolism	4.192362093	0.00117	8	1.32	15607913, 57116832, 15610475, 15609350, 15607407, 15608262, 57116994, 15607208	303	14	2223	0.2717346	0.0080975	1.5228
KEGG_PATHWAY	mtu00624	1- and 2-Methylnaphthalene degradation	2.559290813	0.00104	15	2.48	15610275, 15610410, 15610897, 15608486, 57116779, 15608013, 15607364, 15607385, 15608112, 15610699, 15608605, 15607412, 15607892, 15609926, 15610640	303	43	2223	0.2457393	0.007394	1.3555
KEGG_PATHWAY	mtu00930	Caprolactam degradation	3.076652827	0.0004	13	2.15	15610910, 15608111, 15610182, 57116767, 15607363, 15609816, 15608000, 15608284, 15608210, 15610652, 15607772, 15608045, 15608211	303	31	2223	0.10341	0.0030275	0.5269
KEGG_PATHWAY	mtu00632	Benzoate degradation via CoA ligation	2.33921653	0.00018	22	3.63	15607541, 15610910, 15608111, 57116767, 15610454, 15609816, 15607363, 15607388, 15607389, 15610692, 15610065, 15607384, 15608000, 57117037, 15608463, 15608210, 15607772, 15610652, 15607999, 15607609, 15608045, 15608214, 15608211	303	69	2223	0.0466492	0.0014918	0.2309
KEGG_PATHWAY	mtu00030	Pentose phosphate pathway	4.247524752	5.5E-05	11	1.82	57116993, 57116832, 15610147, 15608086, 15607504, 15609166, 15608586, 15608262, 15608587, 57117081, 15608157	303	19	2223	0.0149003	0.0005003	0.0726
KEGG_PATHWAY	mtu00230	Purine metabolism	2.603321622	3E-05	22	3.63	15607530, 57117051, 15610411, 15607912, 15610412, 15609920, 15608767, 15609339, 15607949, 15607498, 15608157, 15608755, 15607807, 15610593, 15608980, 15607808, 15607144, 15607873, 15608097, 15610532, 15610546, 15610188	303	62	2223	0.0080752	0.0002795	0.0392
KEGG_PATHWAY	mtu03018	RNA degradation	6.521452145	2.3E-05	8	1.32	57117168, 15609581, 15609920, 15607491, 15608163, 15610121, 15607581, 15608437, 15610553	303	9	2223	0.0061268	0.0002276	0.0297
KEGG_PATHWAY	mtu00310	Lysine degradation	2.965873183	1.7E-05	19	3.14	15607541, 15610910, 15608111, 57116767, 15609816, 15607363, 15610692, 15607384, 15608000, 15608284, 15608463, 15608210, 15607772, 15610652, 15609352, 15607999, 15608045, 15608214, 15608211	303	47	2223	0.0045245	0.0001814	0.0219
KEGG_PATHWAY	mtu00620	Pyruvate metabolism	3.220961121	8.2E-06	18	2.97	15609009, 15607352, 15610692, 15610104, 15607384, 15610671, 15608755, 57117037, 15608463, 15607999, 15610803, 15608974, 15608380, 15609632, 15607603, 57116784, 15608214, 15607549	303	41	2223	0.0022331	0.0001016	0.0108
KEGG_PATHWAY	mtu00410	beta-Alanine metabolism	3.370885737	8E-06	17	2.81	15610910, 15608111, 57116767, 15607363, 15609816, 15609726, 15607372, 15608000, 15608210, 15607772, 15610652, 15607296, 15607273, 15610568, 15610276, 15608045, 15608211	303	37	2223	0.0021677	0.0001033	0.0105
KEGG_PATHWAY	mtu00380	Tryptophan metabolism	3.056930693	5.4E-06	20	3.3	15609045, 15607541, 15610910, 15608111, 57116767, 15609816, 15607363, 15610692, 15607384, 15608000, 15608284, 15608463, 15608210, 15607772, 15610652, 15607999, 15610472, 15608045, 15608214, 15608211	303	48	2223	0.0014723	7.367E-05	0.0071
KEGG_PATHWAY	mtu00970	Aminoacyl-tRNA biosynthesis	4.465777012	1.3E-06	14	2.31	15609751, 15610146, 15609709, 15610734, 15608432, 15609982, 15609494, 57117041, 15609585, 57117128, 15608788, 15609692, 15610472, 15608674	303	23	2223	0.0003656	2.285E-05	0.0018
KEGG_PATHWAY	mtu00250	Alanine, aspartate and glutamate metabolism	4.401980198	6E-07	15	2.48	15610572, 15609613, 15609726, 57116903, 15607498, 15610995, 57116856, 15610994, 15610568, 15608523, 15609359, 15609917, 57116704, 15609357, 15608520	303	25	2223	0.0001631	1.165E-05	0.0008
KEGG_PATHWAY	mtu00010	Glycolysis / Gluconeogenesis	3.872112211	1.4E-07	19	3.14	57116739, 15610147, 15607352, 15608576, 15610182, 15608163, 57116779, 15608575, 15608574, 15609166, 57117081, 15608755, 15610803, 15607504, 15608086, 15609632, 15609556, 15607603, 57116784	303	36	2223	3.766E-05	3.138E-06	0.0002
KEGG_PATHWAY	mtu00071	Fatty acid metabolism	3.386138614	4.5E-08	24	3.96	15607541, 15610910, 15608111, 57116767, 15609816, 15607363, 57116779, 15610692, 15609324, 15607384, 15607372, 15608000, 15608284, 15608463, 15608210, 15607772, 15610652, 15607999, 15607296, 15607273, 15610276, 15608045, 15608214, 15608211	303	52	2223	1.211E-05	1.101E-06	6E-05
KEGG_PATHWAY	mtu00281	Geraniol degradation	3.233092801	3.2E-08	26	4.29	15610410, 15610275, 15608486, 15608111, 15607363, 15608013, 15607364, 15608112, 15607385, 15608284, 15608210, 15607772, 15610652, 15610699, 15607892, 15609926, 15608045, 15608211, 15610910, 15610897, 57116767, 15609816, 15608000, 15608605, 15607412, 15610640	303	59	2223	8.779E-06	8.779E-07	4E-05
KEGG_PATHWAY	mtu00650	Butanoate metabolism	3.236750146	2E-09	30	4.95	15610139, 15608111, 15607388, 15607363, 15609726, 15607389, 15607384, 57117044, 15608284, 15608463, 15608210, 15607772, 15610652, 15607999, 15609640, 15610223, 15609641, 57116704, 15608045, 15607609, 15608214, 15608211, 15610910, 57116767, 15610454, 15609816, 15610692, 57116903, 15608000, 15610671, 15610568	303	68	2223	5.32E-07	5.912E-08	3E-06
KEGG_PATHWAY	mtu00020	Citrate cycle (TCA cycle)	4.531450204	5.9E-10	21	3.47	15610475, 15607352, 15609591, 15609592, 15610454, 15607388, 15607389, 15610104, 15608613, 15608091, 15608092, 15607208, 15609352, 15608029, 15610212, 15608036, 15608380, 15608238, 15609632, 15607603, 15609635, 57116784	303	34	2223	1.609E-07	2.011E-08	8E-07

KEGG_PATHWAY	mtu00640	Propanoate metabolism	3.445994599	1.5E-10	31	5.12	15609639, 15608111, 15607363, 15609726, 15610416, 15608114, 15607384, 15608463, 15608210, 15607772, 15610652, 15607999, 15610803, 15607296, 15607893, 15608045, 15608214, 15608211, 15607549, 15610910, 15608630, 15608631, 57116767, 15609816, 15610692, 15607372, 15608000, 15608091, 15608092, 15607273, 15610276	303	66	2223	3.953E-08	5.647E-09	2E-07
KEGG_PATHWAY	mtu00280	Valine, leucine and isoleucine degradation	3.912871287	9.3E-13	32	5.28	15609639, 15608111, 15607363, 15610416, 15608114, 15607384, 15609347, 15608284, 15608463, 15608210, 15607772, 15610652, 15607999, 15609640, 15607296, 15609641, 15607893, 15607603, 15608045, 15608214, 57116784, 15608211, 15610910, 15608630, 15608631, 57116767, 15609816, 15610692, 15607372, 15608000, 15607273, 15610276	303	60	2223	2.531E-10	5.062E-11	1E-09
KEGG_PATHWAY	mtu03010	Ribosome	4.802160216	2.8E-18	36	5.94	15607840, 15607847, 15608768, 15607195, 15607198, 15607846, 15607845, 15607844, 15607842, 15607841, 15609549, 15610594, 15610041, 15607854, 15607855, 15607792, 15607791, 57116808, 57116764, 15608155, 15609922, 15610579, 15607856, 15610046, 15607859, 15610578, 15607858, 15610595, 15610027, 15607823, 57116686, 15607862, 15607863, 15609579, 15607781, 15607780	303	55	2223	7.695E-16	3.847E-16	4E-15