

ASIGNMENT_2

1. Objectives:

- Create an "InteractionNetwork" object to contain the members of each network.
- Annotate it with any KEGG path of which the members of the interaction network are part both the KEGG ID and the path name
- Annotate with the GO Terms associated with the total of all genes in the network. BUT ONLY OF THE BIOLOGICAL PROCESS PART OF THE GO ONTOLOGY! Both the GO:ID and the GO term name
- Create a report of which members of the gene list interact with each other, along with the KEGG/GO functional annotations of those interacting members.

2. Workflow:

- First we are going to create the Protein and Network classes needed for further development of our code.
- Then, after creating the matrix where we will store the proteins, we obtain the protein identifiers for each gene. We will also obtain the GO terms (exclusively those associated with the category "Biological Processes", focusing on those whose identifier begins with P, since they have the format "P:GO:*****"), as well as the KEGG pathways for each gene. For this, we will use the togows database.
- To continue, we will identify the possible interactions involving the genes in our list. To do this, we will identify the IntAct code for each of the proteins and by using the Psiquic database, we will retrieve the proteins with which it interacts. To generate the interaction networks we will assume that given two proteins from our list, A and B, if a third protein, C, whether from the list or not, interacts at the same time with A and B, then all 3 proteins will be part of a network.
- Finally, we will screen print the networks with the respective proteins, GO terms associated with the category "Biological processes" and KEGG pathways.

3. Results

AT4g27030 directly interacts with: []

AT5g54270 directly interacts with: []

AT1g21400 directly interacts with: []

AT5g19120 directly interacts with: ["Q42453"]

AT2g13360 directly interacts with: ["Q42453", "Q0WU92", "Q9ZPS9"]

AT4g05180 directly interacts with: ["Q42453", "Q0WU92", "Q56YA5", "Q9ZPS9", "Q96331"]

AT1g22690 directly interacts with: ["Q42453", "Q0WU92", "Q56YA5", "Q9ZPS9", "Q96331", "Q41932"]

AT2g45170 directly interacts with: ["Q42453", "Q0WU92", "Q56YA5", "Q9ZPS9", "Q96331", "Q41932"]

AT4g09650 directly interacts with: ["Q42453", "Q0WU92", "Q56YA5", "Q9ZPS9", "Q96331", "Q41932", "O23160", "Q84MB2"]

AT5g55620 directly interacts with: ["Q42453", "Q0WU92", "Q56YA5", "Q9ZPS9", "Q96331", "Q41932", "O23160", "Q9SSS9", "Q84MB2", "Q5CCK4"]

AT1g31330 directly interacts with: ["Q42453", "Q0WU92", "Q56YA5", "Q9ZPS9", "Q96331", "Q41932", "O23160", "Q9SSS9", "Q84MB2", "Q5CCK4", "A0A178UNB2"]

AT1g80440 directly interacts with: ["Q42453", "Q0WU92", "Q56YA5", "Q9ZPS9", "Q96331", "Q41932", "O23160", "Q9SSS9", "Q84MB2", "Q5CCK4", "A0A178UNB2"]

AT3g28270 directly interacts with: ["Q42453", "Q0WU92", "Q56YA5", "Q9ZPS9", "Q96331", "Q41932", "O23160", "Q9SSS9", "Q84MB2", "Q5CCK4", "A0A178UNB2"]

AT4g12800 directly interacts with: ["Q42453", "Q0WU92", "Q56YA5", "Q9ZPS9", "Q96331", "Q41932", "O23160", "Q9SSS9", "Q84MB2", "Q5CCK4", "A0A178UNB2"]

AT5g04140 directly interacts with: ["Q42453", "Q0WU92", "Q56YA5", "Q9ZPS9", "Q96331", "Q41932", "O23160", "Q9SSS9", "Q84MB2", "Q5CCK4", "A0A178UNB2", "Q9SUI4", "Q9SZJ5", "Q01525"]

AT5g64040 directly interacts with: ["Q42453", "Q0WU92", "Q56YA5", "Q9ZPS9", "Q96331", "Q41932", "O23160", "Q9SSS9", "Q84MB2", "Q5CCK4", "A0A178UNB2", "Q9SUI4", "Q9ZNZ7", "Q9SZJ5", "Q01525", "P52231"]

AT1g29660 directly interacts with: ["Q42453", "Q0WU92", "Q56YA5", "Q9ZPS9", "Q96331", "Q41932", "O23160", "Q9SSS9", "Q84MB2", "Q5CCK4", "A0A178UNB2", "Q9SUI4", "Q9ZNZ7", "Q9SZJ5", "Q01525", "P52231", "P49107"]

AT1g15820 directly interacts with: ["Q42453", "Q0WU92", "Q56YA5", "Q9ZPS9", "Q96331", "Q41932", "O23160", "Q9SSS9", "Q84MB2", "Q5CCK4", "A0A178UNB2", "Q9SUI4", "Q9ZNZ7", "Q9SZJ5", "Q01525", "P52231", "P49107"]

AT1g64500 directly interacts with: ["Q42453", "Q0WU92", "Q56YA5", "Q9ZPS9", "Q96331", "Q41932", "O23160", "Q9SSS9", "Q84MB2", "Q5CCK4", "A0A178UNB2", "Q9SUI4", "Q9ZNZ7", "Q9SZJ5", "Q01525", "P52231", "P49107"]

AT1g03130 directly interacts with: ["Q42453", "Q0WU92", "Q56YA5", "Q9ZPS9", "Q96331", "Q41932", "O23160", "Q9SSS9", "Q84MB2", "Q5CCK4", "A0A178UNB2", "Q9SUI4", "Q9ZNZ7", "Q9SZJ5", "Q01525", "P52231", "P49107", "Q700E3", "Q8H1Q3", "Q93Z00", "Q9FHQ3", "Q9STS3", "Q9M812"]

AT2g20670 directly interacts with: ["Q42453", "Q0WU92", "Q56YA5", "Q9ZPS9", "Q96331", "Q41932", "O23160", "Q9SSS9", "Q84MB2", "Q5CCK4", "A0A178UNB2", "Q9SUI4", "Q9ZNZ7", "Q9SZJ5", "Q01525", "P52231", "P49107", "Q9SA56", "Q700E3", "Q8H1Q3", "Q93Z00", "Q9FHQ3", "Q9STS3", "Q9M812", "Q9SIN1"]

AT4g17090 directly interacts with: ["Q42453", "Q0WU92", "Q56YA5", "Q9ZPS9", "Q96331", "Q41932", "O23160", "Q9SSS9", "Q84MB2", "Q5CCK4", "A0A178UNB2", "Q9SUI4", "Q9ZNZ7", "Q9SZJ5", "Q01525", "P52231", "P49107", "Q9SA56", "Q700E3", "Q8H1Q3", "Q93Z00", "Q9FHQ3", "Q9STS3", "Q9M812", "Q9SIN1", "Q945P7"]

AT1g23740 directly interacts with: ["Q42453", "Q0WU92", "Q56YA5", "Q9ZPS9", "Q96331", "Q41932", "O23160", "Q9SSS9", "Q84MB2", "Q5CCK4", "A0A178UNB2", "Q9SUI4", "Q9ZNZ7", "Q9SZJ5", "Q01525", "P52231", "P49107", "Q9SA56", "Q700E3", "Q8H1Q3", "Q93Z00", "Q9FHQ3", "Q9STS3", "Q9M812", "Q9SIN1", "Q945P7"]

AT2g46340 directly interacts with: ["Q42453", "Q0WU92", "Q56YA5", "Q9ZPS9", "Q96331", "Q41932", "O23160", "Q9SSS9", "Q84MB2", "Q5CCK4", "A0A178UNB2", "Q9SUI4", "Q9ZNZ7", "Q9SZJ5", "Q01525", "P52231", "P49107", "Q9SA56", "Q700E3", "Q8H1Q3", "Q93Z00", "Q9FHQ3", "Q9STS3", "Q9M812", "Q9SIN1", "Q945P7", "P43254", "O24646", "Q9FE22", "O50055", "Q9LJR3", "Q94BM7"]

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AT5g05690 directly interacts with: ["Q42453", "Q0WU92", "Q56YA5", "Q9ZPS9", "Q96331", "Q41932", "O23160", "Q9SSS9", "Q84MB2", "Q5CCK4", "A0A178UNB2", "Q9SUI4", "Q9ZNZ7", "Q9SZJ5", "Q01525", "P52231", "P49107", "Q9SA56", "Q700E3", "Q8H1Q3", "Q93Z00", "Q9FHQ3", "Q9STS3", "Q9M812", "Q9SIN1", "Q945P7", "Q9SYX2", "P43254", "O24646", "Q9FE22", "O50055", "Q9LJR3", "Q94BM7", "P46600", "P46604", "Q9LXU1", "P46601", "O65665", "P92953", "Q8L774"]

AT5g64410 directly interacts with: ["Q42453", "Q0WU92", "Q56YA5", "Q9ZPS9", "Q96331", "Q41932", "O23160", "Q9SSS9", "Q84MB2", "Q5CCK4", "A0A178UNB2", "Q9SUI4", "Q9ZNZ7", "Q9SZJ5", "Q01525", "P52231", "P49107", "Q9SA56", "Q700E3", "Q8H1Q3", "Q93Z00", "Q9FHQ3", "Q9STS3", "Q9M812", "Q9SIN1", "Q945P7", "Q9SYX2", "P43254", "O24646", "Q9FE22", "O50055", "Q9LJR3", "Q94BM7", "P46600", "P46604", "Q9LXU1", "P46601", "O65665", "P92953", "Q8L774", "Q42569"]

AT2g21330 directly interacts with: ["Q42453", "Q0WU92", "Q56YA5", "Q9ZPS9", "Q96331", "Q41932", "O23160", "Q9SSS9", "Q84MB2", "Q5CCK4", "A0A178UNB2", "Q9SUI4", "Q9ZNZ7", "Q9SZJ5", "Q01525", "P52231", "P49107", "Q9SA56", "Q700E3", "Q8H1Q3", "Q93Z00", "Q9FHQ3", "Q9STS3", "Q9M812", "Q9SIN1", "Q945P7", "Q9SYX2", "P43254", "O24646", "Q9FE22", "O50055", "Q9LJR3", "Q94BM7", "P46600", "P46604", "Q9LXU1", "P46601", "O65665", "P92953", "Q8L774", "Q42569"]

AT1g15980 directly interacts with: ["Q42453", "Q0WU92", "Q56YA5", "Q9ZPS9", "Q96331", "Q41932", "O23160", "Q9SSS9", "Q84MB2", "Q5CCK4", "A0A178UNB2", "Q9SUI4", "Q9ZNZ7", "Q9SZJ5", "Q01525", "P52231", "P49107", "Q9SA56", "Q700E3", "Q8H1Q3", "Q93Z00", "Q9FHQ3", "Q9STS3", "Q9M812", "Q9SIN1", "Q945P7", "Q9SYX2", "P43254", "O24646", "Q9FE22", "O50055", "Q9LJR3", "Q94BM7", "P46600", "P46604", "Q9LXU1", "P46601", "O65665", "P92953", "Q8L774", "Q42569"]

AT2g01890 directly interacts with: ["Q42453", "Q0WU92", "Q56YA5", "Q9ZPS9", "Q96331", "Q41932", "O23160", "Q9SSS9", "Q84MB2", "Q5CCK4", "A0A178UNB2", "Q9SUI4", "Q9ZNZ7", "Q9SZJ5", "Q01525", "P52231", "P49107", "Q9SA56", "Q700E3", "Q8H1Q3", "Q93Z00", "Q9FHQ3", "Q9STS3", "Q9M812", "Q9SIN1", "Q945P7", "Q9SYX2", "P43254", "O24646", "Q9FE22", "O50055", "Q9LJR3", "Q94BM7", "P46600", "P46604", "Q9LXU1", "P46601",

"O65665", "P92953", "Q8L774", "Q42569"] AT1g12250 directly interacts with: ["Q42453", "Q0WU92", "Q56YA5", "Q9ZPS9", "Q96331", "Q41932", "O23160", "Q9SSS9", "Q84MB2", "Q5CCK4", "A0A178UNB2", "Q9SUI4", "Q9ZNZ7", "Q9SZJ5", "Q01525", "P52231", "P49107", "Q9SA56", "Q700E3", "Q8H1Q3", "Q93Z00", "Q9FHQ3", "Q9STS3", "Q9M812", "Q9SIN1", "Q945P7", "Q9SYX2", "P43254", "O24646", "Q9FE22", "O50055", "Q9LJR3", "Q94BM7", "P46600", "P46604", "Q9LXU1", "P46601", "O65665", "P92953", "Q8L774", "Q42569", "Q8VYZ2"] AT2g21210 directly interacts with: ["Q42453", "Q0WU92", "Q56YA5", "Q9ZPS9", "Q96331", "Q41932", "O23160", "Q9SSS9", "Q84MB2", "Q5CCK4", "A0A178UNB2", "Q9SUI4", "Q9ZNZ7", "Q9SZJ5", "Q01525", "P52231", "P49107", "Q9SA56", "Q700E3", "Q8H1Q3", "Q93Z00", "Q9FHQ3", "Q9STS3", "Q9M812", "Q9SIN1", "Q945P7", "Q9SYX2", "P43254", "O24646", "Q9FE22", "O50055", "Q9LJR3", "Q94BM7", "P46600", "P46604", "Q9LXU1", "P46601", "O65665", "P92953", "Q8L774", "Q42569", "Q8VYZ2", "Q8H1Q1"] AT4g28660 directly interacts with: ["Q42453", "Q0WU92", "Q56YA5", "Q9ZPS9", "Q96331", "Q41932", "O23160", "Q9SSS9", "Q84MB2", "Q5CCK4", "A0A178UNB2", "Q9SUI4", "Q9ZNZ7", "Q9SZJ5", "Q01525", "P52231", "P49107", "Q9SA56", "Q700E3", "Q8H1Q3", "Q93Z00", "Q9FHQ3", "Q9STS3", "Q9M812", "Q9SIN1", "Q945P7", "Q9SYX2", "P43254", "O24646", "Q9FE22", "O50055", "Q9LJR3", "Q94BM7", "P46600", "P46604", "Q9LXU1", "P46601", "O65665", "P92953", "Q8L774", "Q42569", "Q8VYZ2", "Q8H1Q1"] AT1g52230 directly interacts with: ["Q42453", "Q0WU92", "Q56YA5", "Q9ZPS9", "Q96331", "Q41932", "O23160", "Q9SSS9", "Q84MB2", "Q5CCK4", "A0A178UNB2", "Q9SUI4", "Q9ZNZ7", "Q9SZJ5", "Q01525", "P52231", "P49107", "Q9SA56", "Q700E3", "Q8H1Q3", "Q93Z00", "Q9FHQ3", "Q9STS3", "Q9M812", "Q9SIN1", "Q945P7", "Q9SYX2", "P43254", "O24646", "Q9FE22", "O50055", "Q9LJR3", "Q94BM7", "P46600", "P46604", "Q9LXU1", "P46601", "O65665", "P92953", "Q8L774", "Q42569", "Q8VYZ2", "Q8H1Q1"] AT3g18890 directly interacts with: ["Q42453", "Q0WU92", "Q56YA5", "Q9ZPS9", "Q96331", "Q41932", "O23160", "Q9SSS9", "Q84MB2", "Q5CCK4", "A0A178UNB2", "Q9SUI4", "Q9ZNZ7", "Q9SZJ5", "Q01525", "P52231", "P49107", "Q9SA56", "Q700E3", "Q8H1Q3", "Q93Z00", "Q9FHQ3", "Q9STS3", "Q9M812", "Q9SIN1", "Q945P7", "Q9SYX2", "P43254", "O24646", "Q9FE22", "O50055", "Q9LJR3", "Q94BM7", "P46600", "P46604", "Q9LXU1", "P46601", "O65665", "P92953", "Q8L774", "Q42569", "Q8VYZ2", "Q8H1Q1"] AT4g22890 directly interacts with: ["Q42453", "Q0WU92", "Q56YA5", "Q9ZPS9", "Q96331", "Q41932", "O23160", "Q9SSS9", "Q84MB2", "Q5CCK4", "A0A178UNB2", "Q9SUI4", "Q9ZNZ7", "Q9SZJ5", "Q01525", "P52231", "P49107", "Q9SA56", "Q700E3", "Q8H1Q3", "Q93Z00", "Q9FHQ3", "Q9STS3", "Q9M812", "Q9SIN1", "Q945P7", "Q9SYX2", "P43254", "O24646", "Q9FE22", "O50055", "Q9LJR3", "Q94BM7", "P46600", "P46604", "Q9LXU1", "P46601", "O65665", "P92953", "Q8L774", "Q42569", "Q8VYZ2", "Q8H1Q1", "Q84MB5", "Q9SZG0", "Q9SHI7", "Q8L9S0", "C0LGW2", "Q9SVG8", "Q9LMN8", "Q944J0", "Q9C7D7", "Q9SZP6", "Q9SL05", "P16972", "Q8W493", "Q9S7H1", "P56773"] AT1g11850 directly interacts with: ["Q42453", "Q0WU92", "Q56YA5", "Q9ZPS9", "Q96331", "Q41932", "O23160", "Q9SSS9", "Q84MB2", "Q5CCK4", "A0A178UNB2", "Q9SUI4", "Q9ZNZ7", "Q9SZJ5", "Q01525", "P52231", "P49107", "Q9SA56", "Q700E3", "Q8H1Q3", "Q93Z00", "Q9FHQ3", "Q9STS3", "Q9M812", "Q9SIN1", "Q945P7", "Q9SYX2", "P43254", "O24646", "Q9FE22", "O50055", "Q9LJR3", "Q94BM7", "P46600", "P46604", "Q9LXU1", "P46601", "O65665", "P92953", "Q8L774", "Q42569", "Q8VYZ2", "Q8H1Q1", "Q84MB5", "Q8H112", "Q9SZG0", "Q9SHI7", "Q8L9S0", "C0LGW2", "Q9SVG8", "Q9LMN8", "Q944J0", "Q9C7D7", "Q9SZP6", "Q9SL05", "P16972", "Q8W493", "Q9S7H1", "P56773"] AT1g37130 directly interacts with: ["Q42453", "Q0WU92", "Q56YA5", "Q9ZPS9", "Q96331", "Q41932", "O23160", "Q9SSS9", "Q84MB2", "Q5CCK4", "A0A178UNB2", "Q9SUI4", "Q9ZNZ7", "Q9SZJ5", "Q01525", "P52231", "P49107", "Q9SA56", "Q700E3", "Q8H1Q3", "Q93Z00", "Q9FHQ3", "Q9STS3", "Q9M812", "Q9SIN1", "Q945P7",

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"O49675"]AT3g01500 directly interacts with: ["Q42453", "Q0WU92", "Q56YA5", "Q9ZPS9", "Q96331", "Q41932", "O23160", "Q9SSS9", "Q84MB2", "Q5CCK4", "A0A178UNB2", "Q9SUI4", "Q9ZNZ7", "Q9SZJ5", "Q01525", "P52231", "P49107", "Q9SA56", "Q700E3", "Q8H1Q3", "Q93Z00", "Q9FHQ3", "Q9STS3", "Q9M812", "Q9SIN1", "Q945P7", "Q9SYX2", "P43254", "O24646", "Q9FE22", "O50055", "Q9LJR3", "Q94BM7", "P46600", "P46604", "Q9LXU1", "P46601", "O65665", "P92953", "Q8L774", "Q42569", "Q8VYZ2", "Q8H1Q1", "Q84MB5", "Q8H112", "Q9SZG0", "Q9SHI7", "Q8L9S0", "COLGW2", "Q9SVG8", "Q9LMN8", "Q944J0", "Q9C7D7", "Q9SZP6", "Q9SL05", "P16972", "Q8W493", "Q9S7H1", "P56773", "O65397", "P11035", "Q3E9D5", "Q17TI5", "O80931", "Q9LVG2", "Q9FFV8", "O49675", "Q9FJX5"]

AT1g25230 directly interacts with: ["Q42453", "Q0WU92", "Q56YA5", "Q9ZPS9", "Q96331", "Q41932", "O23160", "Q9SSS9", "Q84MB2", "Q5CCK4", "A0A178UNB2", "Q9SUI4", "Q9ZNZ7", "Q9SZJ5", "Q01525", "P52231", "P49107", "Q9SA56", "Q700E3", "Q8H1Q3", "Q93Z00", "Q9FHQ3", "Q9STS3", "Q9M812", "Q9SIN1", "Q945P7", "Q9SYX2", "P43254", "O24646", "Q9FE22", "O50055", "Q9LJR3", "Q94BM7", "P46600", "P46604", "Q9LXU1", "P46601", "O65665", "P92953", "Q8L774", "Q42569", "Q8VYZ2", "Q8H1Q1", "Q84MB5", "Q8H112", "Q9SZG0", "Q9SHI7", "Q8L9S0", "COLGW2", "Q9SVG8", "Q9LMN8", "Q944J0", "Q9C7D7", "Q9SZP6", "Q9SL05", "P16972", "Q8W493", "Q9S7H1", "P56773", "O65397", "P11035", "Q3E9D5", "Q17TI5", "O80931", "Q9LVG2", "Q9FFV8", "O49675", "P27140", "Q9FJX5"]

AT2g34430 directly interacts with: ["Q42453", "Q0WU92", "Q56YA5", "Q9ZPS9", "Q96331", "Q41932", "O23160", "Q9SSS9", "Q84MB2", "Q5CCK4", "A0A178UNB2", "Q9SUI4", "Q9ZNZ7", "Q9SZJ5", "Q01525", "P52231", "P49107", "Q9SA56", "Q700E3", "Q8H1Q3", "Q93Z00", "Q9FHQ3", "Q9STS3", "Q9M812", "Q9SIN1", "Q945P7", "Q9SYX2", "P43254", "O24646", "Q9FE22", "O50055", "Q9LJR3", "Q94BM7", "P46600", "P46604", "Q9LXU1", "P46601", "O65665", "P92953", "Q8L774", "Q42569", "Q8VYZ2", "Q8H1Q1", "Q84MB5", "Q8H112", "Q9SZG0", "Q9SHI7", "Q8L9S0", "COLGW2", "Q9SVG8", "Q9LMN8", "Q944J0", "Q9C7D7", "Q9SZP6", "Q9SL05", "P16972", "Q8W493", "Q9S7H1", "P56773", "O65397", "P11035", "Q3E9D5", "Q17TI5", "O80931", "Q9LVG2", "Q9FFV8", "O49675", "P27140", "Q9FJX5"]

AT1g18060 directly interacts with: ["Q42453", "Q0WU92", "Q56YA5", "Q9ZPS9", "Q96331", "Q41932", "O23160", "Q9SSS9", "Q84MB2", "Q5CCK4", "A0A178UNB2", "Q9SUI4", "Q9ZNZ7", "Q9SZJ5", "Q01525", "P52231", "P49107", "Q9SA56", "Q700E3", "Q8H1Q3", "Q93Z00", "Q9FHQ3", "Q9STS3", "Q9M812", "Q9SIN1", "Q945P7", "Q9SYX2", "P43254", "O24646", "Q9FE22", "O50055", "Q9LJR3", "Q94BM7", "P46600", "P46604", "Q9LXU1", "P46601", "O65665", "P92953", "Q8L774", "Q42569", "Q8VYZ2", "Q8H1Q1", "Q84MB5", "Q8H112", "Q9SZG0", "Q9SHI7", "Q8L9S0", "COLGW2", "Q9SVG8", "Q9LMN8", "Q944J0", "Q9C7D7", "Q9SZP6", "Q9SL05", "P16972", "Q8W493", "Q9S7H1", "P56773", "O65397", "P11035", "Q3E9D5", "Q17TI5", "O80931", "Q9LVG2", "Q9FFV8", "O49675", "P27140", "Q9FJX5"]

AT2g30600 directly interacts with: ["Q42453", "Q0WU92", "Q56YA5", "Q9ZPS9", "Q96331", "Q41932", "O23160", "Q9SSS9", "Q84MB2", "Q5CCK4", "A0A178UNB2", "Q9SUI4", "Q9ZNZ7", "Q9SZJ5", "Q01525", "P52231", "P49107", "Q9SA56", "Q700E3", "Q8H1Q3", "Q93Z00", "Q9FHQ3", "Q9STS3", "Q9M812", "Q9SIN1", "Q945P7", "Q9SYX2", "P43254", "O24646", "Q9FE22", "O50055", "Q9LJR3", "Q94BM7", "P46600", "P46604", "Q9LXU1", "P46601", "O65665", "P92953", "Q8L774", "Q42569", "Q8VYZ2", "Q8H1Q1", "Q84MB5", "Q8H112", "Q9SZG0", "Q9SHI7", "Q8L9S0", "COLGW2", "Q9SVG8", "Q9LMN8", "Q944J0", "Q9C7D7", "Q9SZP6", "Q9SL05", "P16972", "Q8W493", "Q9S7H1", "P56773", "O65397", "P11035", "Q3E9D5", "Q17TI5", "O80931", "Q9LVG2", "Q9FFV8", "O49675", "P27140", "Q9FJX5"]

AT4g33010 directly interacts with: ["Q42453", "Q0WU92", "Q56YA5", "Q9ZPS9", "Q96331", "Q41932", "O23160", "Q9SSS9", "Q84MB2", "Q5CCK4", "A0A178UNB2", "Q9SUI4", "Q9ZNZ7", "Q9SZJ5", "Q01525", "P52231", "P49107", "Q9SA56", "Q700E3", "Q8H1Q3", "Q93Z00", "Q9FHQ3", "Q9STS3", "Q9M812", "Q9SIN1", "Q945P7", "Q9SYX2", "P43254", "O24646", "Q9FE22", "O50055", "Q9LJR3", "Q94BM7", "P46600", "P46604", "Q9LXU1", "P46601", "O65665", "P92953", "Q8L774", "Q42569", "Q8VYZ2", "Q8H1Q1", "Q84MB5", "Q8H112", "Q9SZG0", "Q9SHI7", "Q8L9S0", "C0LGW2", "Q9SVG8", "Q9LMN8", "Q944J0", "Q9C7D7", "Q9SZP6", "Q9SL05", "P16972", "Q8W493", "Q9S7H1", "P56773", "O65397", "P11035", "Q3E9D5", "Q17TI5", "O80931", "Q9LVG2", "Q9FFV8", "O49675", "P27140", "Q9FJX5"]

AT1g65490 directly interacts with: ["Q42453", "Q0WU92", "Q56YA5", "Q9ZPS9", "Q96331", "Q41932", "O23160", "Q9SSS9", "Q84MB2", "Q5CCK4", "A0A178UNB2", "Q9SUI4", "Q9ZNZ7", "Q9SZJ5", "Q01525", "P52231", "P49107", "Q9SA56", "Q700E3", "Q8H1Q3", "Q93Z00", "Q9FHQ3", "Q9STS3", "Q9M812", "Q9SIN1", "Q945P7", "Q9SYX2", "P43254", "O24646", "Q9FE22", "O50055", "Q9LJR3", "Q94BM7", "P46600", "P46604", "Q9LXU1", "P46601", "O65665", "P92953", "Q8L774", "Q42569", "Q8VYZ2", "Q8H1Q1", "Q84MB5", "Q8H112", "Q9SZG0", "Q9SHI7", "Q8L9S0", "C0LGW2", "Q9SVG8", "Q9LMN8", "Q944J0", "Q9C7D7", "Q9SZP6", "Q9SL05", "P16972", "Q8W493", "Q9S7H1", "P56773", "O65397", "P11035", "Q3E9D5", "Q17TI5", "O80931", "Q9LVG2", "Q9FFV8", "O49675", "P27140", "Q9FJX5", "Q94B78"]

AT3g21670 directly interacts with: ["Q42453", "Q0WU92", "Q56YA5", "Q9ZPS9", "Q96331", "Q41932", "O23160", "Q9SSS9", "Q84MB2", "Q5CCK4", "A0A178UNB2", "Q9SUI4", "Q9ZNZ7", "Q9SZJ5", "Q01525", "P52231", "P49107", "Q9SA56", "Q700E3", "Q8H1Q3", "Q93Z00", "Q9FHQ3", "Q9STS3", "Q9M812", "Q9SIN1", "Q945P7", "Q9SYX2", "P43254", "O24646", "Q9FE22", "O50055", "Q9LJR3", "Q94BM7", "P46600", "P46604", "Q9LXU1", "P46601", "O65665", "P92953", "Q8L774", "Q42569", "Q8VYZ2", "Q8H1Q1", "Q84MB5", "Q8H112", "Q9SZG0", "Q9SHI7", "Q8L9S0", "C0LGW2", "Q9SVG8", "Q9LMN8", "Q944J0", "Q9C7D7", "Q9SZP6", "Q9SL05", "P16972", "Q8W493", "Q9S7H1", "P56773", "O65397", "P11035", "Q3E9D5", "Q17TI5", "O80931", "Q9LVG2", "Q9FFV8", "O49675", "P27140", "Q9FJX5", "Q94B78"]

AT4g27260 directly interacts with: ["Q42453", "Q0WU92", "Q56YA5", "Q9ZPS9", "Q96331", "Q41932", "O23160", "Q9SSS9", "Q84MB2", "Q5CCK4", "A0A178UNB2", "Q9SUI4", "Q9ZNZ7", "Q9SZJ5", "Q01525", "P52231", "P49107", "Q9SA56", "Q700E3", "Q8H1Q3", "Q93Z00", "Q9FHQ3", "Q9STS3", "Q9M812", "Q9SIN1", "Q945P7", "Q9SYX2", "P43254", "O24646", "Q9FE22", "O50055", "Q9LJR3", "Q94BM7", "P46600", "P46604", "Q9LXU1", "P46601", "O65665", "P92953", "Q8L774", "Q42569", "Q8VYZ2", "Q8H1Q1", "Q84MB5", "Q8H112", "Q9SZG0", "Q9SHI7", "Q8L9S0", "C0LGW2", "Q9SVG8", "Q9LMN8", "Q944J0", "Q9C7D7", "Q9SZP6", "Q9SL05", "P16972", "Q8W493", "Q9S7H1", "P56773", "O65397", "P11035", "Q3E9D5", "Q17TI5", "O80931", "Q9LVG2", "Q9FFV8", "O49675", "P27140", "Q9FJX5", "Q94B78"]

AT1g12780 directly interacts with: ["Q42453", "Q0WU92", "Q56YA5", "Q9ZPS9", "Q96331", "Q41932", "O23160", "Q9SSS9", "Q84MB2", "Q5CCK4", "A0A178UNB2", "Q9SUI4", "Q9ZNZ7", "Q9SZJ5", "Q01525", "P52231", "P49107", "Q9SA56", "Q700E3", "Q8H1Q3", "Q93Z00", "Q9FHQ3", "Q9STS3", "Q9M812", "Q9SIN1", "Q945P7", "Q9SYX2", "P43254", "O24646", "Q9FE22", "O50055", "Q9LJR3", "Q94BM7", "P46600", "P46604", "Q9LXU1", "P46601", "O65665", "P92953", "Q8L774", "Q42569", "Q8VYZ2", "Q8H1Q1", "Q84MB5", "Q8H112", "Q9SZG0", "Q9SHI7", "Q8L9S0", "C0LGW2", "Q9SVG8", "Q9LMN8", "Q944J0", "Q9C7D7",

"Q9SZP6", "Q9SL05", "P16972", "Q8W493", "Q9S7H1", "P56773", "O65397", "P11035", "Q3E9D5", "Q17TI5", "O80931", "Q9LVG2", "Q9FFV8", "O49675", "P27140", "Q9FJX5", "Q94B78", "Q9T0A7"]

AT1g55480 directly interacts with: ["Q42453", "Q0WU92", "Q56YA5", "Q9ZPS9", "Q96331", "Q41932", "O23160", "Q9SSS9", "Q84MB2", "Q5CCK4", "A0A178UNB2", "Q9SUI4", "Q9ZNZ7", "Q9SZJ5", "Q01525", "P52231", "P49107", "Q9SA56", "Q700E3", "Q8H1Q3", "Q93Z00", "Q9FHQ3", "Q9STS3", "Q9M812", "Q9SIN1", "Q945P7", "Q9SYX2", "P43254", "O24646", "Q9FE22", "O50055", "Q9LJR3", "Q94BM7", "P46600", "P46604", "Q9LXU1", "P46601", "O65665", "P92953", "Q8L774", "Q42569", "Q8VYZ2", "Q8H1Q1", "Q84MB5", "Q8H112", "Q9SZG0", "Q9SHI7", "Q8L9S0", "COLGW2", "Q9SVG8", "Q9LMN8", "Q944J0", "Q9C7D7", "Q9SZP6", "Q9SL05", "P16972", "Q8W493", "Q9S7H1", "P56773", "O65397", "P11035", "Q3E9D5", "Q17TI5", "O80931", "Q9LVG2", "Q9FFV8", "O49675", "P27140", "Q9FJX5", "Q94B78", "Q42605", "Q9T0A7"]

AT2g17880 directly interacts with: ["Q42453", "Q0WU92", "Q56YA5", "Q9ZPS9", "Q96331", "Q41932", "O23160", "Q9SSS9", "Q84MB2", "Q5CCK4", "A0A178UNB2", "Q9SUI4", "Q9ZNZ7", "Q9SZJ5", "Q01525", "P52231", "P49107", "Q9SA56", "Q700E3", "Q8H1Q3", "Q93Z00", "Q9FHQ3", "Q9STS3", "Q9M812", "Q9SIN1", "Q945P7", "Q9SYX2", "P43254", "O24646", "Q9FE22", "O50055", "Q9LJR3", "Q94BM7", "P46600", "P46604", "Q9LXU1", "P46601", "O65665", "P92953", "Q8L774", "Q42569", "Q8VYZ2", "Q8H1Q1", "Q84MB5", "Q8H112", "Q9SZG0", "Q9SHI7", "Q8L9S0", "COLGW2", "Q9SVG8", "Q9LMN8", "Q944J0", "Q9C7D7", "Q9SZP6", "Q9SL05", "P16972", "Q8W493", "Q9S7H1", "P56773", "O65397", "P11035", "Q3E9D5", "Q17TI5", "O80931", "Q9LVG2", "Q9FFV8", "O49675", "P27140", "Q9FJX5", "Q94B78", "Q42605", "Q9T0A7", "Q9SCK1"]

AT3g49160 directly interacts with: ["Q42453", "Q0WU92", "Q56YA5", "Q9ZPS9", "Q96331", "Q41932", "O23160", "Q9SSS9", "Q84MB2", "Q5CCK4", "A0A178UNB2", "Q9SUI4", "Q9ZNZ7", "Q9SZJ5", "Q01525", "P52231", "P49107", "Q9SA56", "Q700E3", "Q8H1Q3", "Q93Z00", "Q9FHQ3", "Q9STS3", "Q9M812", "Q9SIN1", "Q945P7", "Q9SYX2", "P43254", "O24646", "Q9FE22", "O50055", "Q9LJR3", "Q94BM7", "P46600", "P46604", "Q9LXU1", "P46601", "O65665", "P92953", "Q8L774", "Q42569", "Q8VYZ2", "Q8H1Q1", "Q84MB5", "Q8H112", "Q9SZG0", "Q9SHI7", "Q8L9S0", "COLGW2", "Q9SVG8", "Q9LMN8", "Q944J0", "Q9C7D7", "Q9SZP6", "Q9SL05", "P16972", "Q8W493", "Q9S7H1", "P56773", "O65397", "P11035", "Q3E9D5", "Q17TI5", "O80931", "Q9LVG2", "Q9FFV8", "O49675", "P27140", "Q9FJX5", "Q94B78", "Q42605", "Q9T0A7", "O48828", "Q9SCK1", "Q8L9Y3", "F4JL11", "Q9C9A3", "O82240", "Q680A5"]

AT4g21210 directly interacts with: ["Q42453", "Q0WU92", "Q56YA5", "Q9ZPS9", "Q96331", "Q41932", "O23160", "Q9SSS9", "Q84MB2", "Q5CCK4", "A0A178UNB2", "Q9SUI4", "Q9ZNZ7", "Q9SZJ5", "Q01525", "P52231", "P49107", "Q9SA56", "Q700E3", "Q8H1Q3", "Q93Z00", "Q9FHQ3", "Q9STS3", "Q9M812", "Q9SIN1", "Q945P7", "Q9SYX2", "P43254", "O24646", "Q9FE22", "O50055", "Q9LJR3", "Q94BM7", "P46600", "P46604", "Q9LXU1", "P46601", "O65665", "P92953", "Q8L774", "Q42569", "Q8VYZ2", "Q8H1Q1", "Q84MB5", "Q8H112", "Q9SZG0", "Q9SHI7", "Q8L9S0", "COLGW2", "Q9SVG8", "Q9LMN8", "Q944J0", "Q9C7D7", "Q9SZP6", "Q9SL05", "P16972", "Q8W493", "Q9S7H1", "P56773", "O65397", "P11035", "Q3E9D5", "Q17TI5", "O80931", "Q9LVG2", "Q9FFV8", "O49675", "P27140", "Q9FJX5", "Q94B78", "Q42605", "Q9T0A7", "O48828", "Q9SCK1", "Q9M3B6", "Q8L9Y3", "F4JL11", "Q9C9A3", "O82240", "Q680A5"]

AT5g14740 directly interacts with: ["Q42453", "Q0WU92", "Q56YA5", "Q9ZPS9", "Q96331", "Q41932", "O23160", "Q9SSS9", "Q84MB2", "Q5CCK4", "A0A178UNB2", "Q9SUI4", "Q9ZNZ7", "Q9SZJ5", "Q01525", "P52231",

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AT4g28780 directly interacts with: ["Q42453", "Q0WU92", "Q56YA5", "Q9ZPS9", "Q96331", "Q41932", "O23160", "Q9SSS9", "Q84MB2", "Q5CCK4", "A0A178UNB2", "Q9SUI4", "Q9ZNZ7", "Q9SZJ5", "Q01525", "P52231", "P49107", "Q9SA56", "Q700E3", "Q8H1Q3", "Q93Z00", "Q9FHQ3", "Q9STS3", "Q9M812", "Q9SIN1", "Q945P7", "Q9SYX2", "P43254", "O24646", "Q9FE22", "O50055", "Q9LJR3", "Q94BM7", "P46600", "P46604", "Q9LXU1", "P46601", "O65665", "P92953", "Q8L774", "Q42569", "Q8VYZ2", "Q8H1Q1", "Q84MB5", "Q8H112", "Q9SZG0", "Q9SHI7", "Q8L9S0", "C0LGW2", "Q9SVG8", "Q9LMN8", "Q944J0", "Q9C7D7", "Q9SZP6", "Q9SL05", "P16972", "Q8W493", "Q9S7H1", "P56773", "O65397", "P11035", "Q3E9D5", "Q17TI5", "O80931", "Q9LVG2", "Q9FFV8", "O49675", "P27140", "Q9FJX5", "Q94B78", "Q42605", "Q9T0A7", "O48828", "Q9SCK1", "Q9M3B6", "Q8L9Y3", "F4JL11", "Q9C9A3", "O82240", "Q680A5", "O49562", "P42737", "P10896", "Q39141"]

AT1g12900 directly interacts with: ["Q42453", "Q0WU92", "Q56YA5", "Q9ZPS9", "Q96331", "Q41932", "O23160", "Q9SSS9", "Q84MB2", "Q5CCK4", "A0A178UNB2", "Q9SUI4", "Q9ZNZ7", "Q9SZJ5", "Q01525", "P52231", "P49107", "Q9SA56", "Q700E3", "Q8H1Q3", "Q93Z00", "Q9FHQ3", "Q9STS3", "Q9M812", "Q9SIN1", "Q945P7", "Q9SYX2", "P43254", "O24646", "Q9FE22", "O50055", "Q9LJR3", "Q94BM7", "P46600", "P46604", "Q9LXU1", "P46601", "O65665", "P92953", "Q8L774", "Q42569", "Q8VYZ2", "Q8H1Q1", "Q84MB5", "Q8H112", "Q9SZG0", "Q9SHI7", "Q8L9S0", "C0LGW2", "Q9SVG8", "Q9LMN8", "Q944J0", "Q9C7D7", "Q9SZP6", "Q9SL05", "P16972", "Q8W493", "Q9S7H1", "P56773", "O65397", "P11035", "Q3E9D5", "Q17TI5", "O80931", "Q9LVG2", "Q9FFV8", "O49675", "P27140", "Q9FJX5", "Q94B78", "Q42605", "Q9T0A7", "O48828", "Q9SCK1", "Q9M3B6", "Q8L9Y3", "F4JL11", "Q9C9A3", "O82240", "Q680A5", "O49562", "P42737", "P10896", "Q39141", "Q9SVU5", "P93654"]

AT1g64680 directly interacts with: ["Q42453", "Q0WU92", "Q56YA5", "Q9ZPS9", "Q96331", "Q41932", "O23160", "Q9SSS9", "Q84MB2", "Q5CCK4", "A0A178UNB2", "Q9SUI4", "Q9ZNZ7", "Q9SZJ5", "Q01525", "P52231", "P49107", "Q9SA56", "Q700E3", "Q8H1Q3", "Q93Z00", "Q9FHQ3", "Q9STS3", "Q9M812", "Q9SIN1", "Q945P7", "Q9SYX2", "P43254", "O24646", "Q9FE22", "O50055", "Q9LJR3", "Q94BM7", "P46600", "P46604", "Q9LXU1", "P46601", "O65665", "P92953", "Q8L774", "Q42569", "Q8VYZ2", "Q8H1Q1", "Q84MB5", "Q8H112", "Q9SZG0", "Q9SHI7", "Q8L9S0", "C0LGW2", "Q9SVG8", "Q9LMN8", "Q944J0", "Q9C7D7", "Q9SZP6", "Q9SL05", "P16972", "Q8W493", "Q9S7H1", "P56773", "O65397", "P11035", "Q3E9D5", "Q17TI5", "O80931", "Q9LVG2", "Q9FFV8", "O49675", "P27140", "Q9FJX5", "Q94B78", "Q42605", "Q9T0A7", "O48828", "Q9SCK1", "Q9M3B6", "Q8L9Y3", "F4JL11", "Q9C9A3", "O82240", "Q680A5", "O49562", "P42737", "P10896", "Q39141", "Q9SVU5", "P93654", "Q9LPW0"]

AT2g25200 directly interacts with: ["Q42453", "Q0WU92", "Q56YA5", "Q9ZPS9", "Q96331", "Q41932", "O23160", "Q9SSS9", "Q84MB2", "Q5CCK4", "A0A178UNB2", "Q9SUI4", "Q9ZNZ7", "Q9SZJ5", "Q01525", "P52231", "P49107", "Q9SA56", "Q700E3", "Q8H1Q3", "Q93Z00", "Q9FHQ3", "Q9STS3", "Q9M812", "Q9SIN1", "Q945P7", "Q9SYX2", "P43254", "O24646", "Q9FE22", "O50055", "Q9LJR3", "Q94BM7", "P46600", "P46604", "Q9LXU1", "P46601", "O65665", "P92953", "Q8L774", "Q42569", "Q8VYZ2", "Q8H1Q1", "Q84MB5", "Q8H112", "Q9SZG0", "Q9SHI7", "Q8L9S0", "C0LGW2", "Q9SVG8", "Q9LMN8", "Q944J0", "Q9C7D7", "Q9SZP6", "Q9SL05", "P16972", "Q8W493", "Q9S7H1", "P56773", "O65397", "P11035", "Q3E9D5", "Q17TI5", "O80931", "Q9LVG2", "Q9FFV8", "O49675", "P27140", "Q9FJX5", "Q94B78", "Q42605", "Q9T0A7", "O48828", "Q9SCK1", "Q9M3B6", "Q8L9Y3", "F4JL11",

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AT3g55800 directly interacts with: ["Q42453", "Q0WU92", "Q56YA5", "Q9ZPS9", "Q96331", "Q41932", "O23160", "Q9SSS9", "Q84MB2", "Q5CCK4", "A0A178UNB2", "Q9SUI4", "Q9ZNZ7", "Q9SZJ5", "Q01525", "P52231", "P49107", "Q9SA56", "Q700E3", "Q8H1Q3", "Q93Z00", "Q9FHQ3", "Q9STS3", "Q9M812", "Q9SIN1", "Q945P7", "Q9SYX2", "P43254", "O24646", "Q9FE22", "O50055", "Q9LJR3", "Q94BM7", "P46600", "P46604", "Q9LXU1", "P46601", "O65665", "P92953", "Q8L774", "Q42569", "Q8VYZ2", "Q8H1Q1", "Q84MB5", "Q8H112", "Q9SZG0", "Q9SHI7", "Q8L9S0", "C0LGW2", "Q9SVG8", "Q9LMN8", "Q944J0", "Q9C7D7", "Q9SZP6", "Q9SL05", "P16972", "Q8W493", "Q9S7H1", "P56773", "O65397", "P11035", "Q3E9D5", "Q17TI5", "O80931", "Q9LVG2", "Q9FFV8", "O49675", "P27140", "Q9FJX5", "Q94B78", "Q42605", "Q9T0A7", "O48828", "Q9SCK1", "Q9M3B6", "Q8L9Y3", "F4JL11", "Q9C9A3", "O82240", "Q680A5", "O49562", "P42737", "P10896", "Q39141", "Q9SVU5", "P93654", "Q9LPW0", "P93397"]

AT4g21280 directly interacts with: ["Q42453", "Q0WU92", "Q56YA5", "Q9ZPS9", "Q96331", "Q41932", "O23160", "Q9SSS9", "Q84MB2", "Q5CCK4", "A0A178UNB2", "Q9SUI4", "Q9ZNZ7", "Q9SZJ5", "Q01525", "P52231", "P49107", "Q9SA56", "Q700E3", "Q8H1Q3", "Q93Z00", "Q9FHQ3", "Q9STS3", "Q9M812", "Q9SIN1", "Q945P7", "Q9SYX2", "P43254", "O24646", "Q9FE22", "O50055", "Q9LJR3", "Q94BM7", "P46600", "P46604", "Q9LXU1", "P46601", "O65665", "P92953", "Q8L774", "Q42569", "Q8VYZ2", "Q8H1Q1", "Q84MB5", "Q8H112", "Q9SZG0", "Q9SHI7", "Q8L9S0", "C0LGW2", "Q9SVG8", "Q9LMN8", "Q944J0", "Q9C7D7", "Q9SZP6", "Q9SL05", "P16972", "Q8W493", "Q9S7H1", "P56773", "O65397", "P11035", "Q3E9D5", "Q17TI5", "O80931", "Q9LVG2", "Q9FFV8", "O49675", "P27140", "Q9FJX5", "Q94B78", "Q42605", "Q9T0A7", "O48828", "Q9SCK1", "Q9M3B6", "Q8L9Y3", "F4JL11", "Q9C9A3", "O82240", "Q680A5", "O49562", "P42737", "P10896", "Q39141", "Q9SVU5", "P93654", "Q9LPW0", "P46283", "P93397"]

AT5g15850 directly interacts with: ["Q42453", "Q0WU92", "Q56YA5", "Q9ZPS9", "Q96331", "Q41932", "O23160", "Q9SSS9", "Q84MB2", "Q5CCK4", "A0A178UNB2", "Q9SUI4", "Q9ZNZ7", "Q9SZJ5", "Q01525", "P52231", "P49107", "Q9SA56", "Q700E3", "Q8H1Q3", "Q93Z00", "Q9FHQ3", "Q9STS3", "Q9M812", "Q9SIN1", "Q945P7", "Q9SYX2", "P43254", "O24646", "Q9FE22", "Q9LJR3", "Q94BM7", "P46600", "P46604", "Q9LXU1", "P46601", "O65665", "P92953", "Q8L774", "Q42569", "Q8VYZ2", "Q8H1Q1", "Q84MB5", "Q8H112", "Q9SZG0", "Q9SHI7", "Q8L9S0", "C0LGW2", "Q9SVG8", "Q9LMN8", "Q944J0", "Q9C7D7", "Q9SZP6", "Q9SL05", "P16972", "Q8W493", "Q9S7H1", "P56773", "O65397", "P11035", "Q3E9D5", "Q17TI5", "O80931", "Q9LVG2", "Q9FFV8", "O49675", "P27140", "Q9FJX5", "Q94B78", "Q42605", "Q9T0A7", "O48828", "Q9SCK1", "Q9M3B6", "Q8L9Y3", "F4JL11", "Q9C9A3", "O82240", "Q680A5", "O49562", "P42737", "P10896", "Q39141", "Q9SVU5", "P93654", "Q9LPW0", "P46283", "P93397", "Q4PSE2", "A8MRI3", "Q9FG68", "Q6NLH4"]

AT1g06680 directly interacts with: ["Q42453", "Q0WU92", "Q56YA5", "Q9ZPS9", "Q96331", "Q41932", "O23160", "Q9SSS9", "Q84MB2", "Q5CCK4", "A0A178UNB2", "Q9SUI4", "Q9ZNZ7", "Q9SZJ5", "Q01525", "P52231", "P49107", "Q9SA56", "Q700E3", "Q8H1Q3", "Q93Z00", "Q9FHQ3", "Q9STS3", "Q9M812", "Q9SIN1", "Q945P7", "Q9SYX2", "P43254", "O24646", "Q9FE22", "O50055", "Q9LJR3", "Q94BM7", "P46600", "P46604", "Q9LXU1", "P46601", "O65665", "P92953", "Q8L774", "Q42569", "Q8VYZ2", "Q8H1Q1", "Q84MB5", "Q8H112", "Q9SZG0", "Q9SHI7", "Q8L9S0", "C0LGW2", "Q9SVG8", "Q9LMN8", "Q944J0", "Q9C7D7", "Q9SZP6", "Q9SL05", "P16972", "Q8W493", "Q9S7H1", "P56773", "O65397", "P11035",

"Q3E9D5", "Q17TI5", "O80931", "Q9LVG2", "Q9FFV8", "O49675", "P27140", "Q9FJX5", "Q94B78", "Q42605", "Q9T0A7", "O48828", "Q9SCK1", "Q9M3B6", "Q8L9Y3", "F4JL11", "Q9C9A3", "O82240", "Q680A5", "O49562", "P42737", "P10896", "Q39141", "Q9SVU5", "P93654", "Q9LPW0", "P46283", "P93397", "Q4PSE2", "A8MRI3", "Q9FG68", "Q6NLH4", "P0AA25"]

AT2g43550 directly interacts with: ["Q42453", "Q0WU92", "Q56YA5", "Q9ZPS9", "Q96331", "Q41932", "O23160", "Q9SSS9", "Q84MB2", "Q5CCK4", "A0A178UNB2", "Q9SUI4", "Q9ZNZ7", "Q9SZJ5", "Q01525", "P52231", "P49107", "Q9SA56", "Q700E3", "Q8H1Q3", "Q93Z00", "Q9FHQ3", "Q9STS3", "Q9M812", "Q9SIN1", "Q945P7", "Q9SYX2", "P43254", "O24646", "Q9FE22", "O50055", "Q9LJR3", "Q94BM7", "P46600", "P46604", "Q9LXU1", "P46601", "O65665", "P92953", "Q8L774", "Q42569", "Q8VYZ2", "Q8H1Q1", "Q84MB5", "Q8H112", "Q9SZG0", "Q9SHI7", "Q8L9S0", "C0LGW2", "Q9SVG8", "Q9LMN8", "Q944J0", "Q9C7D7", "Q9SZP6", "Q9SL05", "P16972", "Q8W493", "Q9S7H1", "P56773", "O65397", "P11035", "Q3E9D5", "Q17TI5", "O80931", "Q9LVG2", "Q9FFV8", "O49675", "P27140", "Q9FJX5", "Q94B78", "Q42605", "Q9T0A7", "O48828", "Q9SCK1", "Q9M3B6", "Q8L9Y3", "F4JL11", "Q9C9A3", "O82240", "Q680A5", "O49562", "P42737", "P10896", "Q39141", "Q9SVU5", "P93654", "Q9LPW0", "P46283", "P93397", "Q4PSE2", "A8MRI3", "Q9FG68", "Q6NLH4", "P0AA25", "Q42029"]

AT3g02730 directly interacts with: ["Q42453", "Q0WU92", "Q56YA5", "Q9ZPS9", "Q96331", "Q41932", "O23160", "Q9SSS9", "Q84MB2", "Q5CCK4", "A0A178UNB2", "Q9SUI4", "Q9ZNZ7", "Q9SZJ5", "Q01525", "P52231", "P49107", "Q9SA56", "Q700E3", "Q8H1Q3", "Q93Z00", "Q9FHQ3", "Q9STS3", "Q9M812", "Q9SIN1", "Q945P7", "Q9SYX2", "P43254", "O24646", "Q9FE22", "O50055", "Q9LJR3", "Q94BM7", "P46600", "P46604", "Q9LXU1", "P46601", "O65665", "P92953", "Q8L774", "Q42569", "Q8VYZ2", "Q8H1Q1", "Q84MB5", "Q8H112", "Q9SZG0", "Q9SHI7", "Q8L9S0", "C0LGW2", "Q9SVG8", "Q9LMN8", "Q944J0", "Q9C7D7", "Q9SZP6", "Q9SL05", "P16972", "Q8W493", "Q9S7H1", "P56773", "O65397", "P11035", "Q3E9D5", "Q17TI5", "O80931", "Q9LVG2", "Q9FFV8", "O49675", "P27140", "Q9FJX5", "Q94B78", "Q42605", "Q9T0A7", "O48828", "Q9SCK1", "Q9M3B6", "Q8L9Y3", "F4JL11", "Q9C9A3", "O82240", "Q680A5", "O49562", "P42737", "P10896", "Q39141", "Q9SVU5", "P93654", "Q9LPW0", "P46283", "P93397", "Q4PSE2", "A8MRI3", "Q9FG68", "Q6NLH4", "P0AA25", "Q42029"]

AT1g42970 directly interacts with: ["Q42453", "Q0WU92", "Q56YA5", "Q9ZPS9", "Q96331", "Q41932", "O23160", "Q9SSS9", "Q84MB2", "Q5CCK4", "A0A178UNB2", "Q9SUI4", "Q9ZNZ7", "Q9SZJ5", "Q01525", "P52231", "P49107", "Q9SA56", "Q700E3", "Q8H1Q3", "Q93Z00", "Q9FHQ3", "Q9STS3", "Q9M812", "Q9SIN1", "Q945P7", "Q9SYX2", "P43254", "O24646", "Q9FE22", "O50055", "Q9LJR3", "Q94BM7", "P46600", "P46604", "Q9LXU1", "P46601", "O65665", "P92953", "Q8L774", "Q42569", "Q8VYZ2", "Q8H1Q1", "Q84MB5", "Q8H112", "Q9SZG0", "Q9SHI7", "Q8L9S0", "C0LGW2", "Q9SVG8", "Q9LMN8", "Q944J0", "Q9C7D7", "Q9SZP6", "Q9SL05", "P16972", "Q8W493", "Q9S7H1", "P56773", "O65397", "P11035", "Q3E9D5", "Q17TI5", "O80931", "Q9LVG2", "Q9FFV8", "O49675", "P27140", "Q9FJX5", "Q94B78", "Q42605", "Q9T0A7", "O48828", "Q9SCK1", "Q9M3B6", "Q8L9Y3", "F4JL11", "Q9C9A3", "O82240", "Q680A5", "O49562", "P42737", "P10896", "Q39141", "Q9SVU5", "P93654", "Q9LPW0", "P46283", "P93397", "Q4PSE2", "A8MRI3", "Q9FG68", "Q6NLH4", "P0AA25", "Q42029"]

AT2g39470 directly interacts with: ["Q42453", "Q0WU92", "Q56YA5", "Q9ZPS9", "Q96331", "Q41932", "O23160", "Q9SSS9", "Q84MB2", "Q5CCK4", "A0A178UNB2", "Q9SUI4", "Q9ZNZ7", "Q9SZJ5", "Q01525", "P52231", "P49107", "Q9SA56", "Q700E3", "Q8H1Q3", "Q93Z00", "Q9FHQ3", "Q9STS3", "Q9M812", "Q9SIN1", "Q945P7", "Q9SYX2", "P43254", "O24646", "Q9FE22", "O50055", "Q9LJR3", "Q94BM7", "P46600", "P46604", "Q9LXU1", "P46601", "O65665", "P92953", "Q8L774", "Q42569", "Q8VYZ2", "Q8H1Q1", "Q84MB5", "Q8H112", "Q9SZG0", "Q9SHI7", "Q8L9S0", "C0LGW2", "Q9SVG8", "Q9LMN8", "Q944J0", "Q9C7D7", "Q9SZP6", "Q9SL05", "P16972", "Q8W493", "Q9S7H1", "P56773", "O65397", "P11035", "Q3E9D5", "Q17TI5", "O80931", "Q9LVG2", "Q9FFV8", "O49675", "P27140", "Q9FJX5", "Q94B78", "Q42605", "Q9T0A7", "O48828", "Q9SCK1", "Q9M3B6", "Q8L9Y3", "F4JL11", "Q9C9A3", "O82240", "Q680A5", "O49562", "P42737", "P10896", "Q39141", "Q9SVU5", "P93654", "Q9LPW0", "P46283", "P93397", "Q4PSE2", "A8MRI3", "Q9FG68", "Q6NLH4", "P0AA25", "Q42029"]

"Q42569", "Q8VYZ2", "Q8H1Q1", "Q84MB5", "Q8H112", "Q9SZG0", "Q9SHI7", "Q8L9S0", "C0LGW2", "Q9SVG8", "Q9LMN8", "Q944J0", "Q9C7D7", "Q9SZP6", "Q9SL05", "P16972", "Q8W493", "Q9S7H1", "P56773", "O65397", "P11035", "Q3E9D5", "Q17TI5", "O80931", "Q9LVG2", "Q9FFV8", "O49675", "P27140", "Q9FJX5", "Q94B78", "Q42605", "Q9T0A7", "O48828", "Q9SCK1", "Q9M3B6", "Q8L9Y3", "F4JL11", "Q9C9A3", "O82240", "Q680A5", "O49562", "P42737", "P10896", "Q39141", "Q9SVU5", "P93654", "Q9LPW0", "P46283", "P93397", "Q4PSE2", "A8MRI3", "Q9FG68", "Q6NLH4", "P0AA25", "Q42029", "P25857"] AT5g17300 directly interacts with: ["Q42453", "Q0WU92", "Q56YA5", "Q9ZPS9", "Q96331", "Q41932", "O23160", "Q9SSS9", "Q84MB2", "Q5CCK4", "A0A178UNB2", "Q9SUI4", "Q9ZNZ7", "Q9SZJ5", "Q01525", "P52231", "P49107", "Q9SA56", "Q700E3", "Q8H1Q3", "Q93Z00", "Q9FHQ3", "Q9STS3", "Q9M812", "Q9SIN1", "Q945P7", "Q9SYX2", "P43254", "O24646", "Q9FE22", "O50055", "Q9LJR3", "Q94BM7", "P46600", "P46604", "Q9LXU1", "P46601", "O65665", "P92953", "Q8L774", "Q42569", "Q8VYZ2", "Q8H1Q1", "Q84MB5", "Q8H112", "Q9SZG0", "Q9SHI7", "Q8L9S0", "C0LGW2", "Q9SVG8", "Q9LMN8", "Q944J0", "Q9C7D7", "Q9SZP6", "Q9SL05", "P16972", "Q8W493", "Q9S7H1", "P56773", "O65397", "P11035", "Q3E9D5", "Q17TI5", "O80931", "Q9LVG2", "Q9FFV8", "O49675", "P27140", "Q9FJX5", "Q94B78", "Q42605", "Q9T0A7", "O48828", "Q9SCK1", "Q9M3B6", "Q8L9Y3", "F4JL11", "Q9C9A3", "O82240", "Q680A5", "O49562", "P42737", "P10896", "Q39141", "Q9SVU5", "P93654", "Q9LPW0", "P46283", "P93397", "Q4PSE2", "A8MRI3", "Q9FG68", "Q6NLH4", "P0AA25", "Q42029", "P25857", "Q9XGN1", "Q9FJF4", "Q5HZ36", "Q9FMZ4", "Q9FMX2", "P49592"] AT1g77490 directly interacts with: ["Q42453", "Q0WU92", "Q56YA5", "Q9ZPS9", "Q96331", "Q41932", "O23160", "Q9SSS9", "Q84MB2", "Q5CCK4", "A0A178UNB2", "Q9SUI4", "Q9ZNZ7", "Q9SZJ5", "Q01525", "P52231", "P49107", "Q9SA56", "Q700E3", "Q8H1Q3", "Q93Z00", "Q9FHQ3", "Q9STS3", "Q9M812", "Q9SIN1", "Q945P7", "Q9SYX2", "P43254", "O24646", "Q9FE22", "O50055", "Q9LJR3", "Q94BM7", "P46600", "P46604", "Q9LXU1", "P46601", "O65665", "P92953", "Q8L774", "Q42569", "Q8VYZ2", "Q8H1Q1", "Q84MB5", "Q8H112", "Q9SZG0", "Q9SHI7", "Q8L9S0", "C0LGW2", "Q9SVG8", "Q9LMN8", "Q944J0", "Q9C7D7", "Q9SZP6", "Q9SL05", "P16972", "Q8W493", "Q9S7H1", "P56773", "O65397", "P11035", "Q3E9D5", "Q17TI5", "O80931", "Q9LVG2", "Q9FFV8", "O49675", "P27140", "Q9FJX5", "Q94B78", "Q42605", "Q9T0A7", "O48828", "Q9SCK1", "Q9M3B6", "Q8L9Y3", "F4JL11", "Q9C9A3", "O82240", "Q680A5", "O49562", "P42737", "P10896", "Q39141", "Q9SVU5", "P93654", "Q9LPW0", "P46283", "P93397", "Q4PSE2", "A8MRI3", "Q9FG68", "Q6NLH4", "P0AA25", "Q42029", "P25857", "Q9XGN1", "F4KGY6", "Q9FJF4", "Q5HZ36", "Q9FMZ4", "Q9FMX2", "P49592"] AT3g27690 directly interacts with: ["Q42453", "Q0WU92", "Q56YA5", "Q9ZPS9", "Q96331", "Q41932", "O23160", "Q9SSS9", "Q84MB2", "Q5CCK4", "A0A178UNB2", "Q9SUI4", "Q9ZNZ7", "Q9SZJ5", "Q01525", "P52231", "P49107", "Q9SA56", "Q700E3", "Q8H1Q3", "Q93Z00", "Q9FHQ3", "Q9STS3", "Q9M812", "Q9SIN1", "Q945P7", "Q9SYX2", "P43254", "O24646", "Q9FE22", "O50055", "Q9LJR3", "Q94BM7", "P46600", "P46604", "Q9LXU1", "P46601", "O65665", "P92953", "Q8L774", "Q42569", "Q8VYZ2", "Q8H1Q1", "Q84MB5", "Q8H112", "Q9SZG0", "Q9SHI7", "Q8L9S0", "C0LGW2", "Q9SVG8", "Q9LMN8", "Q944J0", "Q9C7D7", "Q9SZP6", "Q9SL05", "P16972", "Q8W493", "Q9S7H1", "P56773", "O65397", "P11035", "Q3E9D5", "Q17TI5", "O80931", "Q9LVG2", "Q9FFV8", "O49675", "P27140", "Q9FJX5", "Q94B78", "Q42605", "Q9T0A7", "O48828", "Q9SCK1", "Q9M3B6", "Q8L9Y3", "F4JL11", "Q9C9A3", "O82240", "Q680A5", "O49562", "P42737", "P10896", "Q39141", "Q9SVU5", "P93654", "Q9LPW0", "P46283", "P93397", "Q4PSE2", "A8MRI3", "Q9FG68", "Q6NLH4", "P0AA25", "Q42029", "P25857", "Q9XGN1", "F4KGY6", "Q9FJF4", "Q5HZ36", "Q9FMZ4", "Q9FMX2", "P49592", "Q9LST3", "P42775", "P42776"] AT5g01015 directly interacts with: ["Q42453", "Q0WU92", "Q56YA5", "Q9ZPS9", "Q96331",

"Q41932", "O23160", "Q9SSS9", "Q84MB2", "Q5CCK4", "A0A178UNB2", "Q9SUI4", "Q9ZNZ7", "Q9SZJ5", "Q01525", "P52231", "P49107", "Q9SA56", "Q700E3", "Q8H1Q3", "Q93Z00", "Q9FHQ3", "Q9STS3", "Q9M812", "Q9SIN1", "Q945P7", "Q9SYX2", "P43254", "O24646", "Q9FE22", "O50055", "Q9LJR3", "Q94BM7", "P46600", "P46604", "Q9LXU1", "P46601", "O65665", "P92953", "Q8L774", "Q42569", "Q8VYZ2", "Q8H1Q1", "Q84MB5", "Q8H112", "Q9SZG0", "Q9SHI7", "Q8L9S0", "C0LGW2", "Q9SVG8", "Q9LMN8", "Q944J0", "Q9C7D7", "Q9SZP6", "Q9SL05", "P16972", "Q8W493", "Q9S7H1", "P56773", "O65397", "P11035", "Q3E9D5", "Q17TI5", "O80931", "Q9LVG2", "Q9FFV8", "O49675", "P27140", "Q9FJX5", "Q94B78", "Q42605", "Q9T0A7", "O48828", "Q9SCK1", "Q9M3B6", "Q8L9Y3", "F4JL11", "Q9C9A3", "O82240", "Q680A5", "O49562", "P42737", "P10896", "Q39141", "Q9SVU5", "P93654", "Q9LPW0", "P46283", "P93397", "Q4PSE2", "A8MRI3", "Q9FG68", "Q6NLH4", "P0AA25", "Q42029", "P25857", "Q9XGN1", "F4KGY6", "Q9FJF4", "Q5HZ36", "Q9FMZ4", "Q9FMX2", "P49592", "P42774", "Q84LG2", "Q501B2", "Q9LST3", "P42775", "P42776"]AT1g14150 directly interacts with: ["Q42453", "Q0WU92", "Q56YA5", "Q9ZPS9", "Q96331", "Q41932", "O23160", "Q9SSS9", "Q84MB2", "Q5CCK4", "A0A178UNB2", "Q9SUI4", "Q9ZNZ7", "Q9SZJ5", "Q01525", "P52231", "P49107", "Q9SA56", "Q700E3", "Q8H1Q3", "Q93Z00", "Q9FHQ3", "Q9STS3", "Q9M812", "Q9SIN1", "Q945P7", "Q9SYX2", "P43254", "O24646", "Q9FE22", "O50055", "Q9LJR3", "Q94BM7", "P46600", "P46604", "Q9LXU1", "P46601", "O65665", "P92953", "Q8L774", "Q42569", "Q8VYZ2", "Q8H1Q1", "Q84MB5", "Q8H112", "Q9SZG0", "Q9SHI7", "Q8L9S0", "C0LGW2", "Q9SVG8", "Q9LMN8", "Q944J0", "Q9C7D7", "Q9SZP6", "Q9SL05", "P16972", "Q8W493", "Q9S7H1", "P56773", "O65397", "P11035", "Q3E9D5", "Q17TI5", "O80931", "Q9LVG2", "Q9FFV8", "O49675", "P27140", "Q9FJX5", "Q94B78", "Q42605", "Q9T0A7", "O48828", "Q9SCK1", "Q9M3B6", "Q8L9Y3", "F4JL11", "Q9C9A3", "O82240", "Q680A5", "O49562", "P42737", "P10896", "Q39141", "Q9SVU5", "P93654", "Q9LPW0", "P46283", "P93397", "Q4PSE2", "A8MRI3", "Q9FG68", "Q6NLH4", "P0AA25", "Q42029", "P25857", "Q9XGN1", "F4KGY6", "Q9FJF4", "Q5HZ36", "Q9FMZ4", "Q9FMX2", "P49592", "P42774", "Q84LG2", "Q501B2", "Q9LST3", "P42775", "P42776"]]

AT1g64720 directly interacts with: ["Q42453", "Q0WU92", "Q56YA5", "Q9ZPS9", "Q96331", "Q41932", "O23160", "Q9SSS9", "Q84MB2", "Q5CCK4", "A0A178UNB2", "Q9SUI4", "Q9ZNZ7", "Q9SZJ5", "Q01525", "P52231", "P49107", "Q9SA56", "Q700E3", "Q8H1Q3", "Q93Z00", "Q9FHQ3", "Q9STS3", "Q9M812", "Q9SIN1", "Q945P7", "Q9SYX2", "P43254", "O24646", "Q9FE22", "O50055", "Q9LJR3", "Q94BM7", "P46600", "P46604", "Q9LXU1", "P46601", "O65665", "P92953", "Q8L774", "Q42569", "Q8VYZ2", "Q8H1Q1", "Q84MB5", "Q8H112", "Q9SZG0", "Q9SHI7", "Q8L9S0", "C0LGW2", "Q9SVG8", "Q9LMN8", "Q944J0", "Q9C7D7", "Q9SZP6", "Q9SL05", "P16972", "Q8W493", "Q9S7H1", "P56773", "O65397", "P11035", "Q3E9D5", "Q17TI5", "O80931", "Q9LVG2", "Q9FFV8", "O49675", "P27140", "Q9FJX5", "Q94B78", "Q42605", "Q9T0A7", "O48828", "Q9SCK1", "Q9M3B6", "Q8L9Y3", "F4JL11", "Q9C9A3", "O82240", "Q680A5", "O49562", "P42737", "P10896", "Q39141", "Q9SVU5", "P93654", "Q9LPW0", "P46283", "P93397", "Q4PSE2", "A8MRI3", "Q9FG68", "Q6NLH4", "P0AA25", "Q42029", "P25857", "Q9XGN1", "F4KGY6", "Q9FJF4", "Q5HZ36", "Q9FMZ4", "Q9FMX2", "P49592", "P42774", "Q84LG2", "Q501B2", "Q9LST3", "P42775", "P42776"]]

AT2g26080 directly interacts with: ["Q42453", "Q0WU92", "Q56YA5", "Q9ZPS9", "Q96331", "Q41932", "O23160", "Q9SSS9", "Q84MB2", "Q5CCK4", "A0A178UNB2", "Q9SUI4", "Q9ZNZ7", "Q9SZJ5", "Q01525", "P52231", "P49107", "Q9SA56", "Q700E3", "Q8H1Q3", "Q93Z00", "Q9FHQ3", "Q9STS3", "Q9M812", "Q9SIN1", "Q945P7", "Q9SYX2", "P43254", "O24646", "Q9FE22", "O50055", "Q9LJR3", "Q94BM7", "P46600", "P46604", "Q9LXU1", "P46601",

"O65665", "P92953", "Q8L774", "Q42569", "Q8VYZ2", "Q8H1Q1", "Q84MB5", "Q8H112", "Q9SZG0", "Q9SHI7", "Q8L9S0", "C0LGW2", "Q9SVG8", "Q9LMN8", "Q944J0", "Q9C7D7", "Q9SZP6", "Q9SL05", "P16972", "Q8W493", "Q9S7H1", "P56773", "O65397", "P11035", "Q3E9D5", "Q17TI5", "O80931", "Q9LVG2", "Q9FFV8", "O49675", "P27140", "Q9FJX5", "Q94B78", "Q42605", "Q9T0A7", "O48828", "Q9SCK1", "Q9M3B6", "Q8L9Y3", "F4JL11", "Q9C9A3", "O82240", "Q680A5", "O49562", "P42737", "P10896", "Q39141", "Q9SVU5", "P93654", "Q9LPW0", "P46283", "P93397", "Q4PSE2", "A8MRI3", "Q9FG68", "Q6NLH4", "P0AA25", "Q42029", "P25857", "Q9XGN1", "F4KGY6", "Q9FJF4", "Q5HZ36", "Q9FMZ4", "Q9FMX2", "P49592", "P42774", "Q84LG2", "Q501B2", "Q9LST3", "P42775", "P42776"]

AT3g56940 directly interacts with: ["Q42453", "Q0WU92", "Q56YA5", "Q9ZPS9", "Q96331", "Q41932", "O23160", "Q9SSS9", "Q84MB2", "Q5CCK4", "A0A178UNB2", "Q9SUI4", "Q9ZNZ7", "Q9SZJ5", "Q01525", "P52231", "P49107", "Q9SA56", "Q700E3", "Q8H1Q3", "Q93Z00", "Q9FHQ3", "Q9STS3", "Q9M812", "Q9SIN1", "Q945P7", "Q9SYX2", "P43254", "O24646", "Q9FE22", "O50055", "Q9LJR3", "Q94BM7", "P46600", "P46604", "Q9LXU1", "P46601", "O65665", "P92953", "Q8L774", "Q42569", "Q8VYZ2", "Q8H1Q1", "Q84MB5", "Q8H112", "Q9SZG0", "Q9SHI7", "Q8L9S0", "C0LGW2", "Q9SVG8", "Q9LMN8", "Q944J0", "Q9C7D7", "Q9SZP6", "Q9SL05", "P16972", "Q8W493", "Q9S7H1", "P56773", "O65397", "P11035", "Q3E9D5", "Q17TI5", "O80931", "Q9LVG2", "Q9FFV8", "O49675", "P27140", "Q9FJX5", "Q94B78", "Q42605", "Q9T0A7", "O48828", "Q9SCK1", "Q9M3B6", "Q8L9Y3", "F4JL11", "Q9C9A3", "O82240", "Q680A5", "O49562", "P42737", "P10896", "Q39141", "Q9SVU5", "P93654", "Q9LPW0", "P46283", "P93397", "Q4PSE2", "A8MRI3", "Q9FG68", "Q6NLH4", "P0AA25", "Q42029", "P25857", "Q9XGN1", "F4KGY6", "Q9FJF4", "Q5HZ36", "Q9FMZ4", "Q9FMX2", "P49592", "P42774", "Q84LG2", "Q501B2", "Q9LST3", "P42775", "P42776"]

AT4g28030 directly interacts with: ["Q42453", "Q0WU92", "Q56YA5", "Q9ZPS9", "Q96331", "Q41932", "O23160", "Q9SSS9", "Q84MB2", "Q5CCK4", "A0A178UNB2", "Q9SUI4", "Q9ZNZ7", "Q9SZJ5", "Q01525", "P52231", "P49107", "Q9SA56", "Q700E3", "Q8H1Q3", "Q93Z00", "Q9FHQ3", "Q9STS3", "Q9M812", "Q9SIN1", "Q945P7", "Q9SYX2", "P43254", "O24646", "Q9FE22", "O50055", "Q9LJR3", "Q94BM7", "P46600", "P46604", "Q9LXU1", "P46601", "O65665", "P92953", "Q8L774", "Q42569", "Q8VYZ2", "Q8H1Q1", "Q84MB5", "Q8H112", "Q9SZG0", "Q9SHI7", "Q8L9S0", "C0LGW2", "Q9SVG8", "Q9LMN8", "Q944J0", "Q9C7D7", "Q9SZP6", "Q9SL05", "P16972", "Q8W493", "Q9S7H1", "P56773", "O65397", "P11035", "Q3E9D5", "Q17TI5", "O80931", "Q9LVG2", "Q9FFV8", "O49675", "P27140", "Q9FJX5", "Q94B78", "Q42605", "Q9T0A7", "O48828", "Q9SCK1", "Q9M3B6", "Q8L9Y3", "F4JL11", "Q9C9A3", "O82240", "Q680A5", "O49562", "P42737", "P10896", "Q39141", "Q9SVU5", "P93654", "Q9LPW0", "P46283", "P93397", "Q4PSE2", "A8MRI3", "Q9FG68", "Q6NLH4", "P0AA25", "Q42029", "P25857", "Q9XGN1", "F4KGY6", "Q9FJF4", "Q5HZ36", "Q9FMZ4", "Q9FMX2", "P49592", "P42774", "Q84LG2", "Q501B2", "Q9LST3", "P42775", "P42776"]

AT5g20250 directly interacts with: ["Q42453", "Q0WU92", "Q56YA5", "Q9ZPS9", "Q96331", "Q41932", "O23160", "Q9SSS9", "Q84MB2", "Q5CCK4", "A0A178UNB2", "Q9SUI4", "Q9ZNZ7", "Q9SZJ5", "Q01525", "P52231", "P49107", "Q9SA56", "Q700E3", "Q8H1Q3", "Q93Z00", "Q9FHQ3", "Q9STS3", "Q9M812", "Q9SIN1", "Q945P7", "Q9SYX2", "P43254", "O24646", "Q9FE22", "O50055", "Q9LJR3", "Q94BM7", "P46600", "P46604", "Q9LXU1", "P46601", "O65665", "P92953", "Q8L774", "Q42569", "Q8VYZ2", "Q8H1Q1", "Q84MB5", "Q8H112", "Q9SZG0", "Q9SHI7", "Q8L9S0", "C0LGW2", "Q9SVG8", "Q9LMN8", "Q944J0", "Q9C7D7", "Q9SZP6", "Q9SL05", "P16972", "Q8W493", "Q9S7H1", "P56773", "O65397", "P11035", "Q3E9D5", "Q17TI5", "O80931", "Q9LVG2", "Q9FFV8", "O49675", "P27140", "Q9FJX5",

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AT1g54040 directly interacts with: ["Q42453", "Q0WU92", "Q56YA5", "Q9ZPS9", "Q96331", "Q41932", "O23160", "Q9SSS9", "Q84MB2", "Q5CCK4", "A0A178UNB2", "Q9SUI4", "Q9ZNZ7", "Q9SZJ5", "Q01525", "P52231", "P49107", "Q9SA56", "Q700E3", "Q8H1Q3", "Q93Z00", "Q9FHQ3", "Q9STS3", "Q9M812", "Q9SIN1", "Q945P7", "Q9SYX2", "P43254", "O24646", "Q9FE22", "O50055", "Q9LJR3", "Q94BM7", "P46600", "P46604", "Q9LXU1", "P46601", "O65665", "P92953", "Q8L774", "Q42569", "Q8VYZ2", "Q8H1Q1", "Q84MB5", "Q8H112", "Q9SZG0", "Q9SHI7", "Q8L9S0", "C0LGW2", "Q9SVG8", "Q9LMN8", "Q944J0", "Q9C7D7", "Q9SZP6", "Q9SL05", "P16972", "Q8W493", "Q9S7H1", "P56773", "O65397", "P11035", "Q3E9D5", "Q17TI5", "O80931", "Q9LVG2", "Q9FFV8", "O49675", "P27140", "Q9FJX5", "Q94B78", "Q42605", "Q9T0A7", "O48828", "Q9SCK1", "Q9M3B6", "Q8L9Y3", "F4JL11", "Q9C9A3", "O82240", "Q680A5", "O49562", "P42737", "P10896", "Q39141", "Q9SVU5", "P93654", "Q9LPW0", "P46283", "P93397", "Q4PSE2", "A8MRI3", "Q9FG68", "Q6NLH4", "P0AA25", "Q42029", "P25857", "Q9XGN1", "F4KGY6", "Q9FJF4", "Q5HZ36", "Q9FMZ4", "Q9FMX2", "P49592", "P42774", "Q84LG2", "Q501B2", "Q9LST3", "P42775", "P42776", "Q8RX87", "Q9SUP6"]

AT3g21870 directly interacts with: ["Q42453", "Q0WU92", "Q56YA5", "Q9ZPS9", "Q96331", "Q41932", "O23160", "Q9SSS9", "Q84MB2", "Q5CCK4", "A0A178UNB2", "Q9SUI4", "Q9ZNZ7", "Q9SZJ5", "Q01525", "P52231", "P49107", "Q9SA56", "Q700E3", "Q8H1Q3", "Q93Z00", "Q9FHQ3", "Q9STS3", "Q9M812", "Q9SIN1", "Q945P7", "Q9SYX2", "P43254", "O24646", "Q9FE22", "O50055", "Q9LJR3", "Q94BM7", "P46600", "P46604", "Q9LXU1", "P46601", "O65665", "P92953", "Q8L774", "Q42569", "Q8VYZ2", "Q8H1Q1", "Q84MB5", "Q8H112", "Q9SZG0", "Q9SHI7", "Q8L9S0", "C0LGW2", "Q9SVG8", "Q9LMN8", "Q944J0", "Q9C7D7", "Q9SZP6", "Q9SL05", "P16972", "Q8W493", "Q9S7H1", "P56773", "O65397", "P11035", "Q3E9D5", "Q17TI5", "O80931", "Q9LVG2", "Q9FFV8", "O49675", "P27140", "Q9FJX5", "Q94B78", "Q42605", "Q9T0A7", "O48828", "Q9SCK1", "Q9M3B6", "Q8L9Y3", "F4JL11", "Q9C9A3", "O82240", "Q680A5", "O49562", "P42737", "P10896", "Q39141", "Q9SVU5", "P93654", "Q9LPW0", "P46283", "P93397", "Q4PSE2", "A8MRI3", "Q9FG68", "Q6NLH4", "P0AA25", "Q42029", "P25857", "Q9XGN1", "F4KGY6", "Q9FJF4", "Q5HZ36", "Q9FMZ4", "Q9FMX2", "P49592", "P42774", "Q84LG2", "Q501B2", "Q9LST3", "P42775", "P42776", "Q8RX87", "Q8RY71", "Q9SUP6", "P24100"]

AT3g48360 directly interacts with: ["Q42453", "Q0WU92", "Q56YA5", "Q9ZPS9", "Q96331", "Q41932", "O23160", "Q9SSS9", "Q84MB2", "Q5CCK4", "A0A178UNB2", "Q9SUI4", "Q9ZNZ7", "Q9SZJ5", "Q01525", "P52231", "P49107", "Q9SA56", "Q700E3", "Q8H1Q3", "Q93Z00", "Q9FHQ3", "Q9STS3", "Q9M812", "Q9SIN1", "Q945P7", "Q9SYX2", "P43254", "O24646", "Q9FE22", "O50055", "Q9LJR3", "Q94BM7", "P46600", "P46604", "Q9LXU1", "P46601", "O65665", "P92953", "Q8L774", "Q42569", "Q8VYZ2", "Q8H1Q1", "Q84MB5", "Q8H112", "Q9SZG0", "Q9SHI7", "Q8L9S0", "C0LGW2", "Q9SVG8", "Q9LMN8", "Q944J0", "Q9C7D7", "Q9SZP6", "Q9SL05", "P16972", "Q8W493", "Q9S7H1", "P56773", "O65397", "P11035", "Q3E9D5", "Q17TI5", "O80931", "Q9LVG2", "Q9FFV8", "O49675", "P27140", "Q9FJX5", "Q94B78", "Q42605", "Q9T0A7", "O48828", "Q9SCK1", "Q9M3B6", "Q8L9Y3", "F4JL11", "Q9C9A3", "O82240", "Q680A5", "O49562", "P42737", "P10896", "Q39141", "Q9SVU5",

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AT1g68010 directly interacts with: ["Q42453", "Q0WU92", "Q56YA5", "Q9ZPS9", "Q96331", "Q41932", "O23160", "Q9SSS9", "Q84MB2", "Q5CCK4", "A0A178UNB2", "Q9SUI4", "Q9ZNZ7", "Q9SZJ5", "Q01525", "P52231", "P49107", "Q9SA56", "Q700E3", "Q8H1Q3", "Q93Z00", "Q9FHQ3", "Q9STS3", "Q9M812", "Q9SIN1", "Q945P7", "Q9SYX2", "P43254", "O24646", "Q9FE22", "O50055", "Q9LJR3", "Q94BM7", "P46600", "P46604", "Q9LXU1", "P46601", "O65665", "P92953", "Q8L774", "Q42569", "Q8VYZ2", "Q8H1Q1", "Q84MB5", "Q8H112", "Q9SZG0", "Q9SHI7", "Q8L9S0", "COLGW2", "Q9SVG8", "Q9LMN8", "Q944J0", "Q9C7D7", "Q9SZP6", "Q9SL05", "P16972", "Q8W493", "Q9S7H1", "P56773", "O65397", "P11035", "Q3E9D5", "Q17TI5", "O80931", "Q9LVG2", "Q9FFV8", "O49675", "P27140", "Q9FJX5", "Q94B78", "Q42605", "Q9T0A7", "O48828", "Q9SCK1", "Q9M3B6", "Q8L9Y3", "F4JL11", "Q9C9A3", "O82240", "Q680A5", "O49562", "P42737", "P10896", "Q39141", "Q9SVU5", "P93654", "Q9LPW0", "P46283", "P93397", "Q4PSE2", "A8MRI3", "Q9FG68", "Q6NLH4", "P0AA25", "Q42029", "P25857", "Q9XGN1", "F4KGY6", "Q9FJF4", "Q5HZ36", "Q9FMZ4", "Q9FMX2", "P49592", "P42774", "Q84LG2", "Q501B2", "Q9LST3", "P42775", "P42776", "Q8RX87", "Q8RY71", "Q9SUP6", "P24100", "Q9LJ45", "Q9ZVH4", "Q94BN0", "Q38869", "Q39016", "F4JIF5", "Q8W2F3", "Q8GZM7", "Q9LHA6", "Q9M392", "Q9FY58", "Q9M841", "Q9SRR0"]

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AT3g61470 directly interacts with: ["Q42453", "Q0WU92", "Q56YA5", "Q9ZPS9", "Q96331", "Q41932", "O23160", "Q9SSS9", "Q84MB2", "Q5CCK4", "A0A178UNB2", "Q9SUI4", "Q9ZNZ7", "Q9SZJ5", "Q01525", "P52231", "P49107", "Q9SA56", "Q700E3", "Q8H1Q3", "Q93Z00", "Q9FHQ3", "Q9STS3", "Q9M812", "Q9SIN1", "Q945P7", "Q9SYX2", "P43254", "O24646", "Q9FE22", "O50055", "Q9LJR3", "Q94BM7", "P46600", "P46604", "Q9LXU1", "P46601", "O65665", "P92953", "Q8L774", "Q42569", "Q8VYZ2", "Q8H1Q1", "Q84MB5", "Q8H112", "Q9SZG0", "Q9SHI7", "Q8L9S0", "C0LGW2", "Q9SVG8", "Q9LMN8", "Q944J0", "Q9C7D7", "Q9SZP6", "Q9SL05", "P16972", "Q8W493", "Q9S7H1", "P56773", "O65397", "P11035", "Q3E9D5", "Q17TI5", "O80931", "Q9LVG2", "Q9FFV8", "O49675", "P27140", "Q9FJX5", "Q94B78", "Q42605", "Q9T0A7", "O48828", "Q9SCK1", "Q9M3B6", "Q8L9Y3", "F4JL11", "Q9C9A3", "O82240", "Q680A5", "O49562", "P42737", "P10896", "Q39141", "Q9SVU5", "P93654", "Q9LPW0", "P46283", "P93397", "Q4PSE2", "A8MRI3", "Q9FG68", "Q6NLH4", "P0AA25", "Q42029", "P25857", "Q9XGN1", "F4KGY6", "Q9FJF4", "Q5HZ36", "Q9FMZ4", "Q9FMX2", "P49592", "P42774", "Q84LG2", "Q501B2", "Q9LST3", "P42775", "P42776", "Q8RX87", "Q8RY71", "Q9SUP6", "P24100", "Q9LJ45", "Q9ZVH4", "Q94BN0", "Q38869", "Q39016", "F4JIF5", "Q8W2F3", "Q8GZM7", "Q9LHA6", "Q9M392", "Q9FY58", "Q9M841", "Q9C9W5", "Q9SRR0", "Q9SD45", "Q42566"]

AT4g28750 directly interacts with: ["Q42453", "Q0WU92", "Q56YA5", "Q9ZPS9", "Q96331", "Q41932", "O23160", "Q9SSS9", "Q84MB2", "Q5CCK4", "A0A178UNB2", "Q9SUI4", "Q9ZNZ7", "Q9SZJ5", "Q01525", "P52231", "P49107", "Q9SA56", "Q700E3", "Q8H1Q3", "Q93Z00", "Q9FHQ3", "Q9STS3", "Q9M812", "Q9SIN1", "Q945P7", "Q9SYX2", "P43254", "O24646", "Q9FE22", "O50055", "Q9LJR3", "Q94BM7", "P46600", "P46604", "Q9LXU1", "P46601", "O65665", "P92953", "Q8L774", "Q42569", "Q8VYZ2", "Q8H1Q1", "Q84MB5", "Q8H112", "Q9SZG0", "Q9SHI7", "Q8L9S0", "C0LGW2", "Q9SVG8", "Q9LMN8", "Q944J0", "Q9C7D7", "Q9SZP6", "Q9SL05", "P16972", "Q8W493", "Q9S7H1", "P56773", "O65397", "P11035", "Q3E9D5", "Q17TI5", "O80931", "Q9LVG2", "Q9FFV8", "O49675", "P27140", "Q9FJX5", "Q94B78", "Q42605", "Q9T0A7", "O48828", "Q9SCK1", "Q9M3B6", "Q8L9Y3", "F4JL11", "Q9C9A3", "O82240", "Q680A5", "O49562", "P42737", "P10896", "Q39141", "Q9SVU5", "P93654", "Q9LPW0", "P46283", "P93397", "Q4PSE2", "A8MRI3", "Q9FG68", "Q6NLH4", "P0AA25", "Q42029", "P25857", "Q9XGN1", "F4KGY6", "Q9FJF4", "Q5HZ36", "Q9FMZ4", "Q9FMX2", "P49592", "P42774", "Q84LG2", "Q501B2", "Q9LST3", "P42775", "P42776", "Q8RX87", "Q8RY71", "Q9SUP6", "P24100", "Q9LJ45", "Q9ZVH4", "Q94BN0", "Q38869", "Q39016", "F4JIF5", "Q8W2F3", "Q8GZM7", "Q9LHA6", "Q9M392", "Q9FY58", "Q9M841", "Q9C9W5", "Q9SRR0", "Q9SD45", "Q42566"]

AT5g24210 directly interacts with: ["Q42453", "Q0WU92", "Q56YA5", "Q9ZPS9", "Q96331", "Q41932", "O23160", "Q9SSS9", "Q84MB2", "Q5CCK4", "A0A178UNB2", "Q9SUI4", "Q9ZNZ7", "Q9SZJ5", "Q01525", "P52231", "P49107", "Q9SA56", "Q700E3", "Q8H1Q3", "Q93Z00", "Q9FHQ3", "Q9STS3", "Q9M812", "Q9SIN1", "Q945P7", "Q9SYX2", "P43254", "O24646", "Q9FE22", "O50055", "Q9LJR3", "Q94BM7", "P46600", "P46604", "Q9LXU1", "P46601", "O65665", "P92953", "Q8L774", "Q42569", "Q8VYZ2", "Q8H1Q1", "Q84MB5", "Q8H112", "Q9SZG0", "Q9SHI7", "Q8L9S0", "C0LGW2", "Q9SVG8", "Q9LMN8", "Q944J0", "Q9C7D7", "Q9SZP6", "Q9SL05", "P16972", "Q8W493", "Q9S7H1", "P56773", "O65397", "P11035",

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AT1g71030 directly interacts with: ["Q42453", "Q0WU92", "Q56YA5", "Q9ZPS9", "Q96331", "Q41932", "O23160", "Q9SSS9", "Q84MB2", "Q5CCK4", "A0A178UNB2", "Q9SUI4", "Q9ZNZ7", "Q9SZJ5", "Q01525", "P52231", "P49107", "Q9SA56", "Q700E3", "Q8H1Q3", "Q93Z00", "Q9FHQ3", "Q9STS3", "Q9M812", "Q9SIN1", "Q945P7", "Q9SYX2", "P43254", "O24646", "Q9FE22", "O50055", "Q9LJR3", "Q94BM7", "P46600", "P46604", "Q9LXU1", "P46601", "O65665", "P92953", "Q8L774", "Q42569", "Q8VYZ2", "Q8H1Q1", "Q84MB5", "Q8H112", "Q9SZG0", "Q9SHI7", "Q8L9S0", "C0LGW2", "Q9SVG8", "Q9LMN8", "Q944J0", "Q9C7D7", "Q9SZP6", "Q9SL05", "P16972", "Q8W493", "Q9S7H1", "P56773", "O65397", "P11035", "Q3E9D5", "Q17TI5", "O80931", "Q9LVG2", "Q9FFV8", "O49675", "P27140", "Q9FJX5", "Q94B78", "Q42605", "Q9T0A7", "O48828", "Q9SCK1", "Q9M3B6", "Q8L9Y3", "F4JL11", "Q9C9A3", "O82240", "Q680A5", "O49562", "P42737", "P10896", "Q39141", "Q9SVU5", "P93654", "Q9LPW0", "P46283", "P93397", "Q4PSE2", "A8MRI3", "Q9FG68", "Q6NLH4", "P0AA25", "Q42029", "P25857", "Q9XGN1", "F4KGY6", "Q9FJF4", "Q5HZ36", "Q9FMZ4", "Q9FMX2", "P49592", "P42774", "Q84LG2", "Q501B2", "Q9LST3", "P42775", "P42776", "Q8RX87", "Q8RY71", "Q9SUP6", "P24100", "Q9LJ45", "Q9ZVH4", "Q94BN0", "Q38869", "Q39016", "F4JIF5", "Q8W2F3", "Q8GZM7", "Q9LHA6", "Q9M392", "Q9FY58", "Q9M841", "Q9C9W5", "Q9SRR0", "Q9SD45", "Q42566", "Q8W2F1", "P48731", "Q9FL64", "Q9FT81", "O80942", "P93007", "Q9C6A1", "Q9M128"]

AT3g54050 directly interacts with: ["Q42453", "Q0WU92", "Q56YA5", "Q9ZPS9", "Q96331", "Q41932", "O23160", "Q9SSS9", "Q84MB2", "Q5CCK4", "A0A178UNB2", "Q9SUI4", "Q9ZNZ7", "Q9SZJ5", "Q01525", "P52231", "P49107", "Q9SA56", "Q700E3", "Q8H1Q3", "Q93Z00", "Q9FHQ3", "Q9STS3", "Q9M812", "Q9SIN1", "Q945P7", "Q9SYX2", "P43254", "O24646", "Q9FE22", "O50055", "Q9LJR3", "Q94BM7", "P46600", "P46604", "Q9LXU1", "P46601", "O65665", "P92953", "Q8L774", "Q42569", "Q8VYZ2", "Q8H1Q1", "Q84MB5", "Q8H112", "Q9SZG0", "Q9SHI7", "Q8L9S0", "C0LGW2", "Q9SVG8", "Q9LMN8", "Q944J0", "Q9C7D7", "Q9SZP6", "Q9SL05", "P16972", "Q8W493", "Q9S7H1", "P56773", "O65397", "P11035", "Q3E9D5", "Q17TI5", "O80931", "Q9LVG2", "Q9FFV8", "O49675", "P27140", "Q9FJX5", "Q94B78", "Q42605", "Q9T0A7", "O48828", "Q9SCK1", "Q9M3B6", "Q8L9Y3", "F4JL11", "Q9C9A3", "O82240", "Q680A5", "O49562", "P42737", "P10896", "Q39141", "Q9SVU5", "P93654", "Q9LPW0", "P46283", "P93397", "Q4PSE2", "A8MRI3", "Q9FG68", "Q6NLH4", "P0AA25", "Q42029", "P25857", "Q9XGN1", "F4KGY6", "Q9FJF4", "Q5HZ36", "Q9FMZ4", "Q9FMX2", "P49592", "P42774", "Q84LG2", "Q501B2", "Q9LST3", "P42775", "P42776", "Q8RX87", "Q8RY71", "Q9SUP6", "P24100", "Q9LJ45", "Q9ZVH4", "Q94BN0", "Q38869", "Q39016", "F4JIF5", "Q8W2F3", "Q8GZM7", "Q9LHA6", "Q9M392", "Q9FY58", "Q9M841", "Q9C9W5", "Q9SRR0", "Q9SD45", "Q42566", "Q8W2F1", "Q9C9A5", "P48731", "Q9FL64", "Q9FT81", "O80942", "P93007", "Q9C6A1", "Q9M128"] AT3g54890 directly interacts with: ["Q42453", "Q0WU92", "Q56YA5", "Q9ZPS9", "Q96331", "Q41932", "O23160", "Q9SSS9", "Q84MB2", "Q5CCK4", "A0A178UNB2", "Q9SUI4", "Q9ZNZ7", "Q9SZJ5", "Q01525", "P52231",

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AT5g18670 directly interacts with: ["Q42453", "Q0WU92", "Q56YA5", "Q9ZPS9", "Q96331", "Q41932", "O23160", "Q9SSS9", "Q84MB2", "Q5CCK4", "A0A178UNB2", "Q9SUI4", "Q9ZNZ7", "Q9SZJ5", "Q01525", "P52231", "P49107", "Q9SA56", "Q700E3", "Q8H1Q3", "Q93Z00", "Q9FHQ3", "Q9STS3", "Q9M812", "Q9SIN1", "Q945P7", "Q9SYX2", "P43254", "O24646", "Q9FE22", "O50055", "Q9LJR3", "Q94BM7", "P46600", "P46604", "Q9LXU1", "P46601", "O65665", "P92953", "Q8L774", "Q42569", "Q8VYZ2", "Q8H1Q1", "Q84MB5", "Q8H112", "Q9SZG0", "Q9SHI7", "Q8L9S0", "COLGW2", "Q9SVG8", "Q9LMN8", "Q944J0", "Q9C7D7", "Q9SZP6", "Q9SL05", "P16972", "Q8W493", "Q9S7H1", "P56773", "O65397", "P11035", "Q3E9D5", "Q17TI5", "O80931", "Q9LVG2", "Q9FFV8", "O49675", "P27140", "Q9FJX5", "Q94B78", "Q42605", "Q9T0A7", "O48828", "Q9SCK1", "Q9M3B6", "Q8L9Y3", "F4JL11", "Q9C9A3", "O82240", "Q680A5", "O49562", "P42737", "P10896", "Q39141", "Q9SVU5", "P93654", "Q9LPW0", "P46283", "P93397", "Q4PSE2", "A8MRI3", "Q9FG68", "Q6NLH4", "P0AA25", "Q42029", "P25857", "Q9XGN1", "F4KGY6", "Q9FJF4", "Q5HZ36", "Q9FMZ4", "Q9FMX2", "P49592", "P42774", "Q84LG2", "Q501B2", "Q9LST3", "P42775", "P42776", "Q8RX87", "Q8RY71", "Q9SUP6", "P24100", "Q9LJ45", "Q9ZVH4", "Q94BN0", "Q38869", "Q39016", "F4JIF5", "Q8W2F3", "Q8GZM7", "Q9LHA6", "Q9M392", "Q9FY58", "Q9M841", "Q9C9W5", "Q9SRRO", "Q9SD45", "Q42566", "Q8W2F1", "Q9C9A5", "P48731", "Q9FL64", "Q9FT81", "O80942", "P93007", "Q9C6A1", "Q9M128", "P25851", "O48963", "Q9FMF5", "Q42484"]

AT1g28330 directly interacts with: ["Q42453", "Q0WU92", "Q56YA5", "Q9ZPS9", "Q96331", "Q41932", "O23160", "Q9SSS9", "Q84MB2", "Q5CCK4", "A0A178UNB2", "Q9SUI4", "Q9ZNZ7", "Q9SZJ5", "Q01525", "P52231", "P49107", "Q9SA56", "Q700E3", "Q8H1Q3", "Q93Z00", "Q9FHQ3", "Q9STS3", "Q9M812", "Q9SIN1", "Q945P7", "Q9SYX2", "P43254", "O24646", "Q9FE22", "O50055", "Q9LJR3", "Q94BM7", "P46600", "P46604", "Q9LXU1", "P46601", "O65665", "P92953", "Q8L774", "Q42569", "Q8VYZ2", "Q8H1Q1", "Q84MB5", "Q8H112", "Q9SZG0", "Q9SHI7", "Q8L9S0", "COLGW2", "Q9SVG8", "Q9LMN8", "Q944J0", "Q9C7D7", "Q9SZP6", "Q9SL05", "P16972", "Q8W493", "Q9S7H1", "P56773", "O65397", "P11035", "Q3E9D5", "Q17TI5", "O80931", "Q9LVG2", "Q9FFV8", "O49675", "P27140", "Q9FJX5", "Q94B78", "Q42605", "Q9T0A7", "O48828", "Q9SCK1", "Q9M3B6", "Q8L9Y3", "F4JL11", "Q9C9A3", "O82240", "Q680A5", "O49562", "P42737", "P10896", "Q39141", "Q9SVU5", "P93654", "Q9LPW0", "P46283", "P93397", "Q4PSE2", "A8MRI3", "Q9FG68", "Q6NLH4", "P0AA25", "Q42029", "P25857", "Q9XGN1", "F4KGY6", "Q9FJF4", "Q5HZ36", "Q9FMZ4", "Q9FMX2", "P49592", "P42774", "Q84LG2", "Q501B2", "Q9LST3", "P42775", "P42776", "Q8RX87", "Q8RY71", "Q9SUP6", "P24100", "Q9LJ45", "Q9ZVH4", "Q94BN0", "Q38869", "Q39016", "F4JIF5", "Q8W2F3", "Q8GZM7", "Q9LHA6", "Q9M392", "Q9FY58", "Q9M841", "Q9C9W5", "Q9SRRO", "Q9SD45", "Q42566", "Q8W2F1", "Q9C9A5", "P48731", "Q9FL64", "Q9FT81", "O80942", "P93007", "Q9C6A1", "Q9M128", "P25851", "O48963", "Q9FMF5", "Q42484"]

AT1g68570 directly interacts with: ["Q42453", "Q0WU92", "Q56YA5", "Q9ZPS9", "Q96331", "Q41932", "O23160", "Q9SSS9", "Q84MB2", "Q5CCK4", "A0A178UNB2", "Q9SUI4", "Q9ZNZ7", "Q9SZJ5", "Q01525", "P52231", "P49107", "Q9SA56", "Q700E3", "Q8H1Q3", "Q93Z00", "Q9FHQ3", "Q9STS3", "Q9M812", "Q9SIN1", "Q945P7", "Q9SYX2", "P43254", "O24646", "Q9FE22", "O50055", "Q9LJR3", "Q94BM7", "P46600", "P46604", "Q9LXU1", "P46601", "O65665", "P92953", "Q8L774", "Q42569", "Q8VYZ2", "Q8H1Q1", "Q84MB5", "Q8H112", "Q9SZG0", "Q9SHI7", "Q8L9S0", "C0LGW2", "Q9SVG8", "Q9LMN8", "Q944J0", "Q9C7D7", "Q9SZP6", "Q9SL05", "P16972", "Q8W493", "Q9S7H1", "P56773", "O65397", "P11035", "Q3E9D5", "Q17TI5", "O80931", "Q9LVG2", "Q9FFV8", "O49675", "P27140", "Q9FJX5", "Q94B78", "Q42605", "Q9T0A7", "O48828", "Q9SCK1", "Q9M3B6", "Q8L9Y3", "F4JL11", "Q9C9A3", "O82240", "Q680A5", "O49562", "P42737", "P10896", "Q39141", "Q9SVU5", "P93654", "Q9LPW0", "P46283", "P93397", "Q4PSE2", "A8MRI3", "Q9FG68", "Q6NLH4", "P0AA25", "Q42029", "P25857", "Q9XGN1", "F4KGY6", "Q9FJF4", "Q5HZ36", "Q9FMZ4", "Q9FMX2", "P49592", "P42774", "Q84LG2", "Q501B2", "Q9LST3", "P42775", "P42776", "Q8RX87", "Q8RY71", "Q9SUP6", "P24100", "Q9LJ45", "Q9ZVH4", "Q94BN0", "Q38869", "Q39016", "F4JIF5", "Q8W2F3", "Q8GZM7", "Q9LHA6", "Q9M392", "Q9FY58", "Q9M841", "Q9C9W5", "Q9SRRO", "Q9SD45", "Q42566", "Q8W2F1", "Q9C9A5", "P48731", "Q9FL64", "Q9FT81", "O80942", "P93007", "Q9C6A1", "Q9M128", "P25851", "O48963", "Q9FMF5", "Q42484"]

AT2g30950 directly interacts with: ["Q42453", "Q0WU92", "Q56YA5", "Q9ZPS9", "Q96331", "Q41932", "O23160", "Q9SSS9", "Q84MB2", "Q5CCK4", "A0A178UNB2", "Q9SUI4", "Q9ZNZ7", "Q9SZJ5", "Q01525", "P52231", "P49107", "Q9SA56", "Q700E3", "Q8H1Q3", "Q93Z00", "Q9FHQ3", "Q9STS3", "Q9M812", "Q9SIN1", "Q945P7", "Q9SYX2", "P43254", "O24646", "Q9FE22", "O50055", "Q9LJR3", "Q94BM7", "P46600", "P46604", "Q9LXU1", "P46601", "O65665", "P92953", "Q8L774", "Q42569", "Q8VYZ2", "Q8H1Q1", "Q84MB5", "Q8H112", "Q9SZG0", "Q9SHI7", "Q8L9S0", "C0LGW2", "Q9SVG8", "Q9LMN8", "Q944J0", "Q9C7D7", "Q9SZP6", "Q9SL05", "P16972", "Q8W493", "Q9S7H1", "P56773", "O65397", "P11035", "Q3E9D5", "Q17TI5", "O80931", "Q9LVG2", "Q9FFV8", "O49675", "P27140", "Q9FJX5", "Q94B78", "Q42605", "Q9T0A7", "O48828", "Q9SCK1", "Q9M3B6", "Q8L9Y3", "F4JL11", "Q9C9A3", "O82240", "Q680A5", "O49562", "P42737", "P10896", "Q39141", "Q9SVU5", "P93654", "Q9LPW0", "P46283", "P93397", "Q4PSE2", "A8MRI3", "Q9FG68", "Q6NLH4", "P0AA25", "Q42029", "P25857", "Q9XGN1", "F4KGY6", "Q9FJF4", "Q5HZ36", "Q9FMZ4", "Q9FMX2", "P49592", "P42774", "Q84LG2", "Q501B2", "Q9LST3", "P42775", "P42776", "Q8RX87", "Q8RY71", "Q9SUP6", "P24100", "Q9LJ45", "Q9ZVH4", "Q94BN0", "Q38869", "Q39016", "F4JIF5", "Q8W2F3", "Q8GZM7", "Q9LHA6", "Q9M392", "Q9FY58", "Q9M841", "Q9C9W5", "Q9SRRO", "Q9SD45", "Q42566", "Q8W2F1", "Q9C9A5", "P48731", "Q9FL64", "Q9FT81", "O80942", "P93007", "Q9C6A1", "Q9M128", "P25851", "O48963", "Q9FMF5", "Q42484", "Q9SK33"]

AT3g62410 directly interacts with: ["Q42453", "Q0WU92", "Q56YA5", "Q9ZPS9", "Q96331", "Q41932", "O23160", "Q9SSS9", "Q84MB2", "Q5CCK4", "A0A178UNB2", "Q9SUI4", "Q9ZNZ7", "Q9SZJ5", "Q01525", "P52231", "P49107", "Q9SA56", "Q700E3", "Q8H1Q3", "Q93Z00", "Q9FHQ3", "Q9STS3", "Q9M812", "Q9SIN1", "Q945P7", "Q9SYX2", "P43254", "O24646", "Q9FE22", "O50055", "Q9LJR3", "Q94BM7", "P46600", "P46604", "Q9LXU1", "P46601", "O65665", "P92953", "Q8L774", "Q42569", "Q8VYZ2", "Q8H1Q1", "Q84MB5", "Q8H112", "Q9SZG0", "Q9SHI7", "Q8L9S0", "C0LGW2", "Q9SVG8", "Q9LMN8", "Q944J0", "Q9C7D7", "Q9SZP6", "Q9SL05", "P16972", "Q8W493", "Q9S7H1", "P56773", "O65397", "P11035", "Q3E9D5", "Q17TI5", "O80931", "Q9LVG2", "Q9FFV8", "O49675", "P27140", "Q9FJX5",

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AT4g33660 directly interacts with: ["Q42453", "Q0WU92", "Q56YA5", "Q9ZPS9", "Q96331", "Q41932", "O23160", "Q9SSS9", "Q84MB2", "Q5CCK4", "A0A178UNB2", "Q9SUI4", "Q9ZNZ7", "Q9SZJ5", "Q01525", "P52231", "P49107", "Q9SA56", "Q700E3", "Q8H1Q3", "Q93Z00", "Q9FHQ3", "Q9STS3", "Q9M812", "Q9SIN1", "Q945P7", "Q9SYX2", "P43254", "O24646", "Q9FE22", "O50055", "Q9LJR3", "Q94BM7", "P46600", "P46604", "Q9LXU1", "P46601", "O65665", "P92953", "Q8L774", "Q42569", "Q8VYZ2", "Q8H1Q1", "Q84MB5", "Q8H112", "Q9SZG0", "Q9SHI7", "Q8L9S0", "C0LGW2", "Q9SVG8", "Q9LMN8", "Q944J0", "Q9C7D7", "Q9SZP6", "Q9SL05", "P16972", "Q8W493", "Q9S7H1", "P56773", "O65397", "P11035", "Q3E9D5", "Q17TI5", "O80931", "Q9LVG2", "Q9FFV8", "O49675", "P27140", "Q9FJX5", "Q94B78", "Q42605", "Q9T0A7", "O48828", "Q9SCK1", "Q9M3B6", "Q8L9Y3", "F4JL11", "Q9C9A3", "O82240", "Q680A5", "O49562", "P42737", "P10896", "Q39141", "Q9SVU5", "P93654", "Q9LPW0", "P46283", "P93397", "Q4PSE2", "A8MRI3", "Q9FG68", "Q6NLH4", "P0AA25", "Q42029", "P25857", "Q9XGN1", "F4KGY6", "Q9FJF4", "Q5HZ36", "Q9FMZ4", "Q9FMX2", "P49592", "P42774", "Q84LG2", "Q501B2", "Q9LST3", "P42775", "P42776", "Q8RX87", "Q8RY71", "Q9SUP6", "P24100", "Q9LJ45", "Q9ZVH4", "Q94BN0", "Q38869", "Q39016", "F4JIF5", "Q8W2F3", "Q8GZM7", "Q9LHA6", "Q9M392", "Q9FY58", "Q9M841", "Q9C9W5", "Q9SRR0", "Q9SD45", "Q42566", "Q8W2F1", "Q9C9A5", "P48731", "Q9FL64", "Q9FT81", "O80942", "P93007", "Q9C6A1", "Q9M128", "P25851", "O48963", "Q9FMF5", "Q42484", "O80860", "Q9SK33", "Q9LZP9"]

AT5g35170 directly interacts with: ["Q42453", "Q0WU92", "Q56YA5", "Q9ZPS9", "Q96331", "Q41932", "O23160", "Q9SSS9", "Q84MB2", "Q5CCK4", "A0A178UNB2", "Q9SUI4", "Q9ZNZ7", "Q9SZJ5", "Q01525", "P52231", "P49107", "Q9SA56", "Q700E3", "Q8H1Q3", "Q93Z00", "Q9FHQ3", "Q9STS3", "Q9M812", "Q9SIN1", "Q945P7", "Q9SYX2", "P43254", "O24646", "Q9FE22", "O50055", "Q9LJR3", "Q94BM7", "P46600", "P46604", "Q9LXU1", "P46601", "O65665", "P92953", "Q8L774", "Q42569", "Q8VYZ2", "Q8H1Q1", "Q84MB5", "Q8H112", "Q9SZG0", "Q9SHI7", "Q8L9S0", "C0LGW2", "Q9SVG8", "Q9LMN8", "Q944J0", "Q9C7D7", "Q9SZP6", "Q9SL05", "P16972", "Q8W493", "Q9S7H1", "P56773", "O65397", "P11035", "Q3E9D5", "Q17TI5", "O80931", "Q9LVG2", "Q9FFV8", "O49675", "P27140", "Q9FJX5", "Q94B78", "Q42605", "Q9T0A7", "O48828", "Q9SCK1", "Q9M3B6", "Q8L9Y3", "F4JL11", "Q9C9A3", "O82240", "Q680A5", "O49562", "P42737", "P10896", "Q39141", "Q9SVU5", "P93654", "Q9LPW0", "P46283", "P93397", "Q4PSE2", "A8MRI3", "Q9FG68", "Q6NLH4", "P0AA25", "Q42029", "P25857", "Q9XGN1", "F4KGY6", "Q9FJF4", "Q5HZ36", "Q9FMZ4", "Q9FMX2", "P49592", "P42774", "Q84LG2", "Q501B2", "Q9LST3", "P42775", "P42776", "Q8RX87", "Q8RY71", "Q9SUP6", "P24100", "Q9LJ45", "Q9ZVH4", "Q94BN0", "Q38869", "Q39016", "F4JIF5", "Q8W2F3", "Q8GZM7", "Q9LHA6", "Q9M392", "Q9FY58", "Q9M841", "Q9C9W5", "Q9SRR0", "Q9SD45", "Q42566", "Q8W2F1", "Q9C9A5", "P48731", "Q9FL64", "Q9FT81", "O80942", "P93007", "Q9C6A1", "Q9M128", "P25851", "O48963", "Q9FMF5", "Q42484", "O80860", "Q9SK33", "Q9LZP9"]

AT3g16250 directly interacts with: ["Q42453", "Q0WU92", "Q56YA5", "Q9ZPS9", "Q96331", "Q41932", "O23160", "Q9SSS9", "Q84MB2", "Q5CCK4", "A0A178UNB2", "Q9SUI4", "Q9ZNZ7", "Q9SZJ5", "Q01525", "P52231", "P49107", "Q9SA56", "Q700E3", "Q8H1Q3", "Q93Z00", "Q9FHQ3", "Q9STS3", "Q9M812", "Q9SIN1", "Q945P7", "Q9SYX2", "P43254", "O24646", "Q9FE22", "O50055", "Q9LJR3", "Q94BM7", "P46600", "P46604", "Q9LXU1", "P46601", "O65665", "P92953", "Q8L774", "Q42569", "Q8VYZ2", "Q8H1Q1", "Q84MB5", "Q8H112", "Q9SZG0", "Q9SHI7", "Q8L9S0", "COLGW2", "Q9SVG8", "Q9LMN8", "Q944J0", "Q9C7D7", "Q9SZP6", "Q9SL05", "P16972", "Q8W493", "Q9S7H1", "P56773", "O65397", "P11035", "Q3E9D5", "Q17TI5", "O80931", "Q9LVG2", "Q9FFV8", "O49675", "P27140", "Q9FJX5", "Q94B78", "Q42605", "Q9T0A7", "O48828", "Q9SCK1", "Q9M3B6", "Q8L9Y3", "F4JL11", "Q9C9A3", "O82240", "Q680A5", "O49562", "P42737", "P10896", "Q39141", "Q9SVU5", "P93654", "Q9LPW0", "P46283", "P93397", "Q4PSE2", "A8MRI3", "Q9FG68", "Q6NLH4", "P0AA25", "Q42029", "P25857", "Q9XGN1", "F4KGY6", "Q9FJF4", "Q5HZ36", "Q9FMZ4", "Q9FMX2", "P49592", "P42774", "Q84LG2", "Q501B2", "Q9LST3", "P42775", "P42776", "Q8RX87", "Q8RY71", "Q9SUP6", "P24100", "Q9LJ45", "Q9ZVH4", "Q94BN0", "Q38869", "Q39016", "F4JIF5", "Q8W2F3", "Q8GZM7", "Q9LHA6", "Q9M392", "Q9FY58", "Q9M841", "Q9C9W5", "Q9SRR0", "Q9SD45", "Q42566", "Q8W2F1", "Q9C9A5", "P48731", "Q9FL64", "Q9FT81", "O80942", "P93007", "Q9C6A1", "Q9M128", "P25851", "O48963", "Q9FMF5", "Q42484", "O80860", "Q9SK33", "Q9LZP9", "Q8LAZ7", "Q6X7J4", "Q84WV8", "Q9LQT8", "Q9SLH3"] AT1g09340 directly interacts with: ["Q42453", "Q0WU92", "Q56YA5", "Q9ZPS9", "Q96331", "Q41932", "O23160", "Q9SSS9", "Q84MB2", "Q5CCK4", "A0A178UNB2", "Q9SUI4", "Q9ZNZ7", "Q9SZJ5", "Q01525", "P52231", "P49107", "Q9SA56", "Q700E3", "Q8H1Q3", "Q93Z00", "Q9FHQ3", "Q9STS3", "Q9M812", "Q9SIN1", "Q945P7", "Q9SYX2", "P43254", "O24646", "Q9FE22", "O50055", "Q9LJR3", "Q94BM7", "P46600", "P46604", "Q9LXU1", "P46601", "O65665", "P92953", "Q8L774", "Q42569", "Q8VYZ2", "Q8H1Q1", "Q84MB5", "Q8H112", "Q9SZG0", "Q9SHI7", "Q8L9S0", "COLGW2", "Q9SVG8", "Q9LMN8", "Q944J0", "Q9C7D7", "Q9SZP6", "Q9SL05", "P16972", "Q8W493", "Q9S7H1", "P56773", "O65397", "P11035", "Q3E9D5", "Q17TI5", "O80931", "Q9LVG2", "Q9FFV8", "O49675", "P27140", "Q9FJX5", "Q94B78", "Q42605", "Q9T0A7", "O48828", "Q9SCK1", "Q9M3B6", "Q8L9Y3", "F4JL11", "Q9C9A3", "O82240", "Q680A5", "O49562", "P42737", "P10896", "Q39141", "Q9SVU5", "P93654", "Q9LPW0", "P46283", "P93397", "Q4PSE2", "A8MRI3", "Q9FG68", "Q6NLH4", "P0AA25", "Q42029", "P25857", "Q9XGN1", "F4KGY6", "Q9FJF4", "Q5HZ36", "Q9FMZ4", "Q9FMX2", "P49592", "P42774", "Q84LG2", "Q501B2", "Q9LST3", "P42775", "P42776", "Q8RX87", "Q8RY71", "Q9SUP6", "P24100", "Q9LJ45", "Q9ZVH4", "Q94BN0", "Q38869", "Q39016", "F4JIF5", "Q8W2F3", "Q8GZM7", "Q9LHA6", "Q9M392", "Q9FY58", "Q9M841", "Q9C9W5", "Q9SRR0", "Q9SD45", "Q42566", "Q8W2F1", "Q9C9A5", "P48731", "Q9FL64", "Q9FT81", "O80942", "P93007", "Q9C6A1", "Q9M128", "P25851", "O48963", "Q9FMF5", "Q42484", "O80860", "Q9SK33", "Q9LZP9", "Q8LAZ7", "Q9LU21", "Q6X7J4", "Q84WV8", "Q9LQT8", "Q9SLH3"] AT3g63140 directly interacts with: ["Q42453", "Q0WU92", "Q56YA5", "Q9ZPS9", "Q96331", "Q41932", "O23160", "Q9SSS9", "Q84MB2", "Q5CCK4", "A0A178UNB2", "Q9SUI4", "Q9ZNZ7", "Q9SZJ5", "Q01525", "P52231", "P49107", "Q9SA56", "Q700E3", "Q8H1Q3", "Q93Z00", "Q9FHQ3", "Q9STS3", "Q9M812", "Q9SIN1", "Q945P7", "Q9SYX2", "P43254", "O24646", "Q9FE22", "O50055", "Q9LJR3", "Q94BM7", "P46600", "P46604", "Q9LXU1", "P46601", "O65665", "P92953", "Q8L774", "Q42569", "Q8VYZ2", "Q8H1Q1", "Q84MB5", "Q8H112", "Q9SZG0", "Q9SHI7", "Q8L9S0", "COLGW2", "Q9SVG8", "Q9LMN8", "Q944J0", "Q9C7D7", "Q9SZP6", "Q9SL05", "P16972", "Q8W493", "Q9S7H1", "P56773", "O65397", "P11035", "Q3E9D5", "Q17TI5", "O80931", "Q9LVG2", "Q9FFV8", "O49675", "P27140", "Q9FJX5", "Q94B78", "Q42605", "Q9T0A7", "O48828", "Q9SCK1",

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AT1g02640 directly interacts with: ["Q42453", "Q0WU92", "Q56YA5", "Q9ZPS9", "Q96331", "Q41932", "O23160", "Q9SSS9", "Q84MB2", "Q5CCK4", "A0A178UNB2", "Q9SUI4", "Q9ZNZ7", "Q9SZJ5", "Q01525", "P52231", "P49107", "Q9SA56", "Q700E3", "Q8H1Q3", "Q93Z00", "Q9FHQ3", "Q9STS3", "Q9M812", "Q9SIN1", "Q945P7", "Q9SYX2", "P43254", "O24646", "Q9FE22", "O50055", "Q9LJR3", "Q94BM7", "P46600", "P46604", "Q9LXU1", "P46601", "O65665", "P92953", "Q8L774", "Q42569", "Q8VY22", "Q8H1Q1", "Q84MB5", "Q8H112", "Q9SZG0", "Q9SHI7", "Q8L9S0", "C0LGW2", "Q9SVG8", "Q9LMN8", "Q944J0", "Q9C7D7", "Q9SZP6", "Q9SL05", "P16972", "Q8W493", "Q9S7H1", "P56773", "O65397", "P11035", "Q3E9D5", "Q17TI5", "O80931", "Q9LVG2", "Q9FFV8", "O49675", "P27140", "Q9FJX5", "Q94B78", "Q42605", "Q9T0A7", "O48828", "Q9SCK1", "Q9M3B6", "Q8L9Y3", "F4JL11", "Q9C9A3", "O82240", "Q680A5", "O49562", "P42737", "P10896", "Q39141", "Q9SVU5", "P93654", "Q9LPW0", "P46283", "P93397", "Q4PSE2", "A8MRI3", "Q9FG68", "Q6NLH4", "P0AA25", "Q42029", "P25857", "Q9XGN1", "F4KGY6", "Q9FJF4", "Q5HZ36", "Q9FMZ4", "Q9FMX2", "P49592", "P42774", "Q84LG2", "Q501B2", "Q9LST3", "P42775", "P42776", "Q8RX87", "Q8RY71", "Q9SUP6", "P24100", "Q9LJ45", "Q9ZVH4", "Q94BN0", "Q38869", "Q39016", "F4JIF5", "Q8W2F3", "Q8GZM7", "Q9LHA6", "Q9M392", "Q9FY58", "Q9M841", "Q9C9W5", "Q9SRRO", "Q9SD45", "Q42566", "Q8W2F1", "Q9C9A5", "P48731", "Q9FL64", "Q9FT81", "O80942", "P93007", "Q9C6A1", "Q9M128", "P25851", "O48963", "Q9FMF5", "Q42484", "O80860", "Q9SK33", "Q9LZP9", "Q8LAZ7", "Q9LU21", "Q6X7J4", "Q84WV8", "Q9LQT8", "Q9SLH3", "Q8L765", "Q9SGS4", "Q9FDW1", "O82132", "Q9STF2"]

AT2g33830 directly interacts with: ["Q42453", "Q0WU92", "Q56YA5", "Q9ZPS9", "Q96331", "Q41932", "O23160", "Q9SSS9", "Q84MB2", "Q5CCK4", "A0A178UNB2", "Q9SUI4", "Q9ZNZ7", "Q9SZJ5", "Q01525", "P52231", "P49107", "Q9SA56", "Q700E3", "Q8H1Q3", "Q93Z00", "Q9FHQ3", "Q9STS3", "Q9M812", "Q9SIN1", "Q945P7", "Q9SYX2", "P43254", "O24646", "Q9FE22", "O50055", "Q9LJR3", "Q94BM7", "P46600", "P46604", "Q9LXU1", "P46601", "O65665", "P92953", "Q8L774", "Q42569", "Q8VY22", "Q8H1Q1", "Q84MB5", "Q8H112", "Q9SZG0", "Q9SHI7", "Q8L9S0", "C0LGW2", "Q9SVG8", "Q9LMN8", "Q944J0", "Q9C7D7", "Q9SZP6", "Q9SL05", "P16972", "Q8W493", "Q9S7H1", "P56773", "O65397", "P11035", "Q3E9D5", "Q17TI5", "O80931", "Q9LVG2", "Q9FFV8", "O49675", "P27140", "Q9FJX5", "Q94B78", "Q42605", "Q9T0A7", "O48828", "Q9SCK1", "Q9M3B6", "Q8L9Y3", "F4JL11", "Q9C9A3", "O82240", "Q680A5", "O49562", "P42737", "P10896", "Q39141", "Q9SVU5", "P93654", "Q9LPW0", "P46283", "P93397", "Q4PSE2", "A8MRI3", "Q9FG68", "Q6NLH4", "P0AA25", "Q42029", "P25857", "Q9XGN1", "F4KGY6", "Q9FJF4", "Q5HZ36", "Q9FMZ4", "Q9FMX2", "P49592", "P42774", "Q84LG2", "Q501B2", "Q9LST3", "P42775", "P42776", "Q8RX87", "Q8RY71", "Q9SUP6", "P24100", "Q9LJ45", "Q9ZVH4", "Q94BN0", "Q38869", "Q39016", "F4JIF5", "Q8W2F3", "Q8GZM7", "Q9LHA6", "Q9M392", "Q9FY58", "Q9M841", "Q9C9W5", "Q9SRRO", "Q9SD45", "Q42566", "Q8W2F1", "Q9C9A5", "P48731", "Q9FL64", "Q9FT81", "O80942", "P93007", "Q9C6A1", "Q9M128", "P25851", "O48963", "Q9FMF5", "Q42484", "O80860", "Q9SK33", "Q9LZP9", "Q8LAZ7", "Q9LU21", "Q6X7J4", "Q84WV8", "Q9LQT8", "Q9SLH3", "Q8L765", "Q9SGS4", "Q9FDW1", "O82132", "Q9STF2", "Q9SRQ7"]

AT3g47340 directly interacts with: ["Q42453", "Q0WU92", "Q56YA5", "Q9ZPS9", "Q96331", "Q41932", "O23160", "Q9SSS9", "Q84MB2", "Q5CCK4", "A0A178UNB2", "Q9SUI4", "Q9ZNZ7", "Q9SZJ5", "Q01525", "P52231", "P49107", "Q9SA56", "Q700E3", "Q8H1Q3", "Q93Z00", "Q9FHQ3", "Q9STS3", "Q9M812", "Q9SIN1", "Q945P7", "Q9SYX2", "P43254", "O24646",

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AT5g35630 directly interacts with: ["Q42453", "Q0WU92", "Q56YA5", "Q9ZPS9", "Q96331", "Q41932", "O23160", "Q9SSS9", "Q84MB2", "Q5CCK4", "A0A178UNB2", "Q9SUI4", "Q9ZNZ7", "Q9SZJ5", "Q01525", "P52231", "P49107", "Q9SA56", "Q700E3", "Q8H1Q3", "Q93Z00", "Q9FHQ3", "Q9STS3", "Q9M812", "Q9SIN1", "Q945P7", "Q9SYX2", "P43254", "O24646", "Q9FE22", "O50055", "Q9LJR3", "Q94BM7", "P46600", "P46604", "Q9LXU1", "P46601", "O65665", "P92953", "Q8L774", "Q42569", "Q8VYZ2", "Q8H1Q1", "Q84MB5", "Q8H112", "Q9SZG0", "Q9SHI7", "Q8L9S0", "C0LGW2", "Q9SVG8", "Q9LMN8", "Q944J0", "Q9C7D7", "Q9SZP6", "Q9SL05", "P16972", "Q8W493", "Q9S7H1", "P56773", "O65397", "P11035", "Q3E9D5", "Q17TI5", "O80931", "Q9LVG2", "Q9FFV8", "O49675", "P27140", "Q9FJX5", "Q94B78", "Q42605", "Q9T0A7", "O48828", "Q9SCK1", "Q9M3B6", "Q8L9Y3", "F4JL11", "Q9C9A3", "O82240", "Q680A5", "O49562", "P42737", "P10896", "Q39141", "Q9SVU5", "P93654", "Q9LPW0", "P46283", "P93397", "Q4PSE2", "A8MRI3", "Q9FG68", "Q6NLH4", "P0AA25", "Q42029", "P25857", "Q9XGN1", "F4KGY6", "Q9FJF4", "Q5HZ36", "Q9FMZ4", "Q9FMX2", "P49592", "P42774", "Q84LG2", "Q501B2", "Q9LST3", "P42775", "P42776", "Q8RX87", "Q8RY71", "Q9SUP6", "P24100", "Q9LJ45", "Q9ZVH4", "Q94BN0", "Q38869", "Q39016", "F4JIF5", "Q8W2F3", "Q8GZM7", "Q9LHA6", "Q9M392", "Q9FY58", "Q9M841", "Q9C9W5", "Q9SRRO", "Q9SD45", "Q42566", "Q8W2F1", "Q9C9A5", "P48731", "Q9FL64", "Q9FT81", "O80942", "P93007", "Q9C6A1", "Q9M128", "P25851", "O48963", "Q9FMF5", "Q42484", "O80860", "Q9SK33", "Q9LZP9", "Q8LAZ7", "Q9LU21", "Q6X7J4", "Q84WV8", "Q9LQT8", "Q9SLH3", "Q8L765", "Q9SGS4", "Q9FDW1", "O82132", "Q9STF2", "Q9SRQ7", "P93017"]

AT1g29910 directly interacts with: ["Q42453", "Q0WU92", "Q56YA5", "Q9ZPS9", "Q96331", "Q41932", "O23160", "Q9SSS9", "Q84MB2", "Q5CCK4", "A0A178UNB2", "Q9SUI4", "Q9ZNZ7", "Q9SZJ5", "Q01525", "P52231", "P49107", "Q9SA56", "Q700E3", "Q8H1Q3", "Q93Z00", "Q9FHQ3", "Q9STS3", "Q9M812", "Q9SIN1", "Q945P7", "Q9SYX2", "P43254", "O24646", "Q9FE22", "O50055", "Q9LJR3", "Q94BM7", "P46600", "P46604", "Q9LXU1", "P46601", "O65665", "P92953", "Q8L774", "Q42569", "Q8VYZ2", "Q8H1Q1", "Q84MB5", "Q8H112", "Q9SZG0", "Q9SHI7", "Q8L9S0", "C0LGW2", "Q9SVG8", "Q9LMN8", "Q944J0", "Q9C7D7", "Q9SZP6", "Q9SL05", "P16972", "Q8W493", "Q9S7H1", "P56773", "O65397", "P11035", "Q3E9D5", "Q17TI5", "O80931", "Q9LVG2", "Q9FFV8", "O49675", "P27140", "Q9FJX5",

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AT1g13930 directly interacts with: ["Q42453", "Q0WU92", "Q56YA5", "Q9ZPS9", "Q96331", "Q41932", "O23160", "Q9SSS9", "Q84MB2", "Q5CCK4", "A0A178UNB2", "Q9SUI4", "Q9ZNZ7", "Q9SZJ5", "Q01525", "P52231", "P49107", "Q9SA56", "Q700E3", "Q8H1Q3", "Q93Z00", "Q9FHQ3", "Q9STS3", "Q9M812", "Q9SIN1", "Q945P7", "Q9SYX2", "P43254", "O24646", "Q9FE22", "O50055", "Q9LJR3", "Q94BM7", "P46600", "P46604", "Q9LXU1", "P46601", "O65665", "P92953", "Q8L774", "Q42569", "Q8VYZ2", "Q8H1Q1", "Q84MB5", "Q8H112", "Q9SZG0", "Q9SHI7", "Q8L9S0", "C0LGW2", "Q9SVG8", "Q9LMN8", "Q944J0", "Q9C7D7", "Q9SZP6", "Q9SL05", "P16972", "Q8W493", "Q9S7H1", "P56773", "O65397", "P11035", "Q3E9D5", "Q17TI5", "O80931", "Q9LVG2", "Q9FFV8", "O49675", "P27140", "Q9FJX5", "Q94B78", "Q42605", "Q9T0A7", "O48828", "Q9SCK1", "Q9M3B6", "Q8L9Y3", "F4JL11", "Q9C9A3", "O82240", "Q680A5", "O49562", "P42737", "P10896", "Q39141", "Q9SVU5", "P93654", "Q9LPW0", "P46283", "P93397", "Q4PSE2", "A8MRI3", "Q9FG68", "Q6NLH4", "P0AA25", "Q42029", "P25857", "Q9XGN1", "F4KGY6", "Q9FJF4", "Q5HZ36", "Q9FMZ4", "Q9FMX2", "P49592", "P42774", "Q84LG2", "Q501B2", "Q9LST3", "P42775", "P42776", "Q8RX87", "Q8RY71", "Q9SUP6", "P24100", "Q9LJ45", "Q9ZVH4", "Q94BN0", "Q38869", "Q39016", "F4JIF5", "Q8W2F3", "Q8GZM7", "Q9LHA6", "Q9M392", "Q9FY58", "Q9M841", "Q9C9W5", "Q9SRR0", "Q9SD45", "Q42566", "Q8W2F1", "Q9C9A5", "P48731", "Q9FL64", "Q9FT81", "O80942", "P93007", "Q9C6A1", "Q9M128", "P25851", "O48963", "Q9FMF5", "Q42484", "O80860", "Q9SK33", "Q9LZP9", "Q8LAZ7", "Q9LU21", "Q6X7J4", "Q84WV8", "Q9LQT8", "Q9SLH3", "Q8L765", "Q9SGS4", "Q9FDW1", "O82132", "Q9STF2", "Q9SRQ7", "P93017", "Q43127", "Q8VZ87", "P0CJ48", "Q8RX77", "Q84N34", "Q9LSP7", "Q9FNH6", "Q8RYE2", "Q944H2", "Q94K72", "Q9SUZ7", "Q9FVX3", "Q94CG2", "Q9AST5", "Q9M0B0", "Q8W4N1", "Q9C835", "Q9LIN9", "Q9LYI4", "Q9C994", "O64852", "P93825", "Q8RY98", "Q9SX96", "Q94F57", "Q9FG89", "Q9M9S6", "Q9FJB4", "Q9LVU1", "Q9LPN5", "Q9CAC5", "A9X4U2", "Q9FF75", "Q9S841", "Q9LK09", "O82265"]

AT4g37610 directly interacts with: ["Q42453", "Q0WU92", "Q56YA5", "Q9ZPS9", "Q96331", "Q41932", "O23160", "Q9SSS9", "Q84MB2", "Q5CCK4", "A0A178UNB2", "Q9SUI4", "Q9ZNZ7", "Q9SZJ5", "Q01525", "P52231", "P49107", "Q9SA56", "Q700E3", "Q8H1Q3", "Q93Z00", "Q9FHQ3", "Q9STS3", "Q9M812", "Q9SIN1", "Q945P7", "Q9SYX2", "P43254", "O24646", "Q9FE22", "O50055", "Q9LJR3", "Q94BM7", "P46600", "P46604", "Q9LXU1", "P46601", "O65665", "P92953", "Q8L774", "Q42569", "Q8VYZ2", "Q8H1Q1", "Q84MB5", "Q8H112", "Q9SZG0", "Q9SHI7", "Q8L9S0", "C0LGW2", "Q9SVG8", "Q9LMN8", "Q944J0", "Q9C7D7", "Q9SZP6", "Q9SL05", "P16972", "Q8W493", "Q9S7H1", "P56773", "O65397", "P11035", "Q3E9D5", "Q17TI5", "O80931", "Q9LVG2", "Q9FFV8", "O49675", "P27140", "Q9FJX5", "Q94B78", "Q42605", "Q9T0A7", "O48828", "Q9SCK1", "Q9M3B6", "Q8L9Y3", "F4JL11", "Q9C9A3", "O82240", "Q680A5", "O49562", "P42737", "P10896", "Q39141", "Q9SVU5", "P93654", "Q9LPW0", "P46283", "P93397", "Q4PSE2", "A8MRI3", "Q9FG68", "Q6NLH4",

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AT1g76100 directly interacts with: ["Q42453", "Q0WU92", "Q56YA5", "Q9ZPS9", "Q96331", "Q41932", "O23160", "Q9SSS9", "Q84MB2", "Q5CCK4", "A0A178UNB2", "Q9SUI4", "Q9ZNZ7", "Q9SZJ5", "Q01525", "P52231", "P49107", "Q9SA56", "Q700E3", "Q8H1Q3", "Q93Z00", "Q9FHQ3", "Q9STS3", "Q9M812", "Q9SIN1", "Q945P7", "Q9SYX2", "P43254", "O24646", "Q9FE22", "O50055", "Q9LJR3", "Q94BM7", "P46600", "P46604", "Q9LXU1", "P46601", "O65665", "P92953", "Q8L774", "Q42569", "Q8VY22", "Q8H1Q1", "Q84MB5", "Q8H112", "Q9SZG0", "Q9SHI7", "Q8L9S0", "C0LGW2", "Q9SVG8", "Q9LMN8", "Q944J0", "Q9C7D7", "Q9SZP6", "Q9SL05", "P16972", "Q8W493", "Q9S7H1", "P56773", "O65397", "P11035", "Q3E9D5", "Q17TI5", "O80931", "Q9LVG2", "Q9FFV8", "O49675", "P27140", "Q9FJX5", "Q94B78", "Q42605", "Q9T0A7", "O48828", "Q9SCK1", "Q9M3B6", "Q8L9Y3", "F4JL11", "Q9C9A3", "O82240", "Q680A5", "O49562", "P42737", "P10896", "Q39141", "Q9SVU5", "P93654", "Q9LPW0", "P46283", "P93397", "Q4PSE2", "A8MRI3", "Q9FG68", "Q6NLH4", "P0AA25", "Q42029", "P25857", "Q9XGN1", "F4KGY6", "Q9FJF4", "Q5HZ36", "Q9FMZ4", "Q9FMX2", "P49592", "P42774", "Q84LG2", "Q501B2", "Q9LST3", "P42775", "P42776", "Q8RX87", "Q8RY71", "Q9SUP6", "P24100", "Q9LJ45", "Q9ZVH4", "Q94BN0", "Q38869", "Q39016", "F4JIF5", "Q8W2F3", "Q8GZM7", "Q9LHA6", "Q9M392", "Q9FY58", "Q9M841", "Q9C9W5", "Q9SRRO", "Q9SD45", "Q42566", "Q8W2F1", "Q9C9A5", "P48731", "Q9FL64", "Q9FT81", "O80942", "P93007", "Q9C6A1", "Q9M128", "P25851", "O48963", "Q9FMF5", "Q42484", "O80860", "Q9SK33", "Q9LZP9", "Q8LAZ7", "Q9LU21", "Q6X7J4", "Q84WV8", "Q9LQT8", "Q9SLH3", "Q8L765", "Q9SGS4", "Q9FDW1", "O82132", "Q9STF2", "Q9SRQ7", "P93017", "Q43127", "Q8VZ87", "P0CJ48", "Q8RX77", "Q84N34", "Q9LSP7", "Q9FNH6", "Q8RYE2", "Q944H2", "Q94K72", "Q9SUZ7", "Q9FVX3", "Q94CG2", "Q9AST5", "Q9M0B0", "Q8W4N1", "Q9C835", "Q9LIN9", "Q9LYI4", "Q9C994", "O64852", "P93825", "Q8RY98", "Q9SX96", "Q94F57", "Q9FG89", "Q9M9S6", "Q9FJB4", "Q9LVU1", "Q9LPN5", "Q9CAC5", "A9X4U2", "Q9FF75", "Q9S841", "Q9SUA1", "Q9XI93", "Q9LK09", "O82265", "Q6EJ98"]

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AT4g39710 directly interacts with: ["Q42453", "Q0WU92", "Q56YA5", "Q9ZPS9", "Q96331", "Q41932", "O23160", "Q9SSS9", "Q84MB2", "Q5CCK4", "A0A178UNB2", "Q9SUI4", "Q9ZNZ7", "Q9SZJ5", "Q01525", "P52231", "P49107", "Q9SA56", "Q700E3", "Q8H1Q3", "Q93Z00", "Q9FHQ3", "Q9STS3", "Q9M812", "Q9SIN1", "Q945P7", "Q9SYX2", "P43254", "O24646", "Q9FE22", "O50055", "Q9LJR3", "Q94BM7", "P46600", "P46604", "Q9LXU1", "P46601", "O65665", "P92953", "Q8L774", "Q42569", "Q8VYZ2", "Q8H1Q1", "Q84MB5", "Q8H112", "Q9SZG0", "Q9SHI7", "Q8L9S0", "C0LGW2", "Q9SVG8", "Q9LMN8", "Q944J0", "Q9C7D7",

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We also use two web tools to compare both GO terms and KEGG pathways associated with our gene list: Omicsbam and <https://biit.cs.ut.ee/gprofiler/gost>.

Below, we set out the classification of each of the genes into the different categories of GO terms associated with biological processes. In addition, a graph of the results is provided.

GO #Seqs Seqs

photosynthesis 46 AT2G34430, AT3G27690, AT1G15980, AT1G55480, AT1G61520, AT4G04640, AT4G21280, AT1G30380, AT3G54890, AT1G14150, AT2G30950, AT4G12800, AT3G01500, AT3G54050, AT3G62410, AT1G31330, AT4G09650, AT1G15820, AT4G22890,

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generation of precursor metabolites and energy 34 AT2G34430, AT3G27690, AT1G15980, AT1G55480, AT1G61520, AT4G04640, AT4G21280, AT3G54890, AT1G14150, AT2G30950, AT3G54050, AT4G09650, AT1G15820, AT4G22890, AT1G29920, AT4G05180, AT2G21330, AT3G16250, AT3G47470, AT5G54270, AT1G08380, AT2G34420, AT4G02530, AT3G08940, AT1G06680, AT5G48300, AT3G61470, AT1G76100, AT5G04140, AT3G47340, AT5G01530, AT3G50820, AT1G29910, AT3G49160

carbohydrate metabolic process 20 AT4G17090, AT5G18670, AT1G12780, AT1G09340, AT5G20250, AT5G48300, AT2G18700, AT1G12900, AT3G54050, AT3G62410, AT1G70820, AT3G02730, AT5G49360, AT2G21330, AT4G37800, AT3G47340, AT1G42970, AT3G55800, AT1G02640, AT3G49160

anatomical structure development 13 AT4G02770, AT5G48300, AT3G01500, AT5G15850, AT2G39730, AT5G49360, AT5G05690, AT1G14280, AT4G17460, AT1G54040, AT2G46340, AT3G48360, AT2G43010

defense response to other organism 12 AT3G61260, AT1G20020, AT5G24210, AT1G29660, AT3G01500, AT1G20440, AT1G54040, AT1G76080, AT2G43550, AT3G05730, AT5G48490, AT5G58260

amino acid metabolic process 10 AT2G26080, AT5G35630, AT5G04140, AT3G47340, AT4G33010, AT5G65010, AT2G43100, AT2G13360, AT1G21400, AT2G38210

signaling 10 AT1G22690, AT1G80440, AT1G14280, AT3G45780, AT5G17300, AT1G13930, AT2G46340, AT3G48360, AT1G77490, AT2G43010

protein modification process 10 AT2G30600, AT5G38990, AT3G45780, AT3G62410, AT3G21870, AT4G37610, AT2G46340, AT3G48360, AT3G50820, AT5G22920

carbohydrate derivative metabolic process 10 AT1G12780, AT2G21330, AT4G04640, AT5G04140, AT3G54050, AT3G47340, AT4G09650, AT5G65010, AT3G55800, AT3G49160

regulation of DNA-templated transcription 9 AT1G71030, AT3G63140, AT1G09340, AT4G17460, AT5G17300, AT5G15850, AT4G37610, AT3G48360, AT2G43010

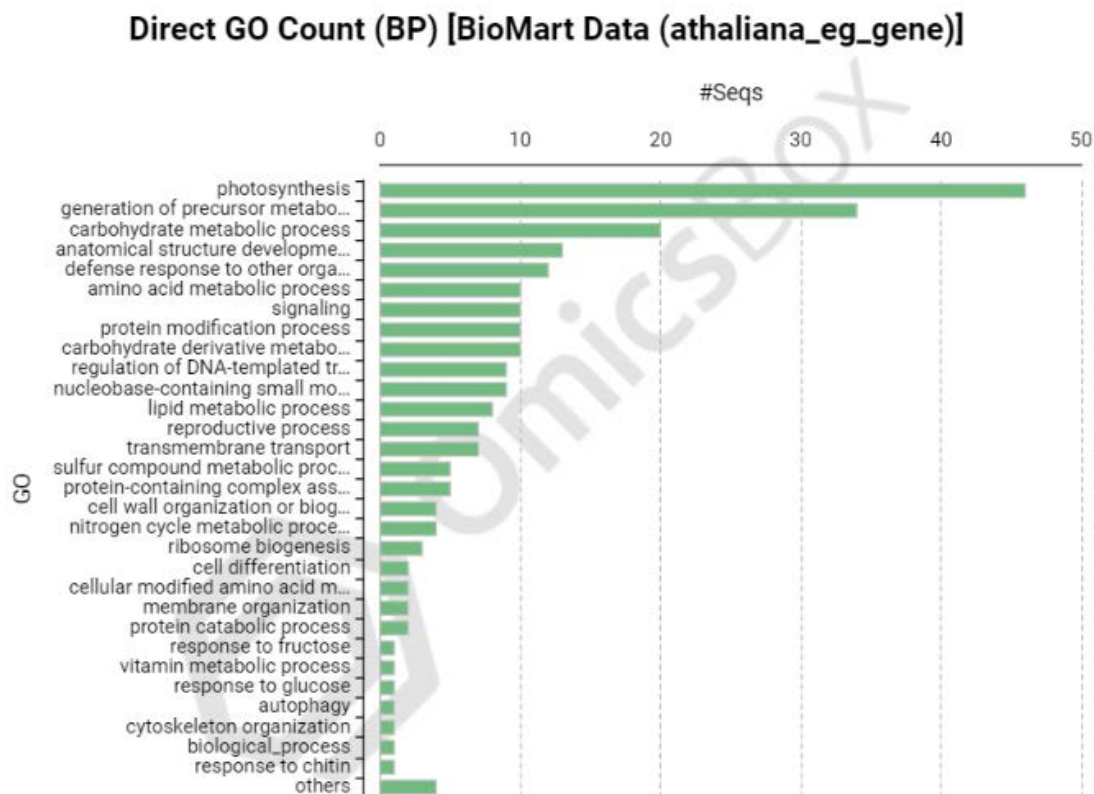
nucleobase-containing small molecule metabolic process 9 AT1G12780, AT2G21330, AT4G04640, AT5G04140, AT3G47340, AT4G09650, AT5G65010, AT3G49160, AT5G35170

lipid metabolic process 8 AT4G19170, AT4G37980, AT5G05690, AT5G24210, AT1G29660, AT4G28780, AT4G27030, AT1G13930

reproductive process 7 AT5G05690, AT4G02770, AT5G48300, AT4G17460, AT5G15850, AT2G46340, AT5G49360

transmembrane transport 7 AT4G04640, AT1G69870, AT5G64410, AT3G21670, AT3G45780, AT1G68570, AT4G09650

sulfur compound metabolic process	5	AT4G27260, AT2G03750, AT1G54040, AT2G43100, AT1G78370
protein-containing complex assembly	5	AT1G55480, AT2G30950, AT3G62410, AT3G50820, AT5G58260
cell wall organization or biogenesis	4	AT1G12780, AT4G37800, AT1G02640, AT5G49360
nitrogen cycle metabolic process	4	AT1G37130, AT1G69870, AT3G21670, AT1G68570
ribosome biogenesis	3	AT3G63140, AT1G12780, AT1G09340
cell differentiation	2	AT1G71030, AT5G05690
cellular modified amino acid metabolic process	2	AT3G47340, AT1G78370
membrane organization	2	AT1G74730, AT2G30950
protein catabolic process	2	AT2G30950, AT5G22920
response to fructose	1	AT1G28330
vitamin metabolic process	1	AT2G38210
response to glucose	1	AT1G28330
autophagy	1	AT2G45170
cytoskeleton organization	1	AT1G64500
biological_process	1	AT5G01015
response to chitin	1	AT2G21210
response to sucrose	1	AT1G28330
response to auxin	1	AT2G21210
aging	1	AT5G35630
detoxification	1	AT1G78370



Below we analyze the KEGG pathways associated with each of the genes on our list.

Term_name	Term_id	Intersections
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Photosynthesis KEGG:00195

AT4G05180,AT4G09650,AT1G31330,AT4G12800,AT5G64040,AT1G03130,AT4G28660,AT1G52230,AT1G20020,AT4G21280,AT1G06680,AT1G14150,AT4G28750,AT3G50820,AT1G76100,AT1G08380,AT4G04640,AT4G02770,AT1G30380,AT3G16140

Photosynthesis - antenna proteins KEGG:00196

AT5G54270,AT1G15820,AT3G47470,AT2G34430,AT2G34420,AT3G27690,AT1G61520,AT3G61470,AT3G54890,AT3G08940,AT1G29910,AT1G29920,AT5G01530

Metabolic pathways KEGG:01100

AT5G54270,AT1G21400,AT2G13360,AT4G05180,AT4G09650,AT1G31330,AT4G12800,AT5G64040,AT1G15820,AT1G03130,AT4G17090,AT3G47470,AT5G05690,AT2G21330,AT2G01890,AT4G28660,AT1G52230,AT1G37130,AT4G19170,AT5G65010,AT3G01500,AT1G25230,AT2G34430,AT4G33010,AT1G12780,AT3G49160,AT5G14740,AT4G37980,AT1G20020,AT2G34420,AT1G12900,AT3G55800,AT4G21280,AT1G06680,AT1G42970,AT1G77490,AT3G27690,AT1G14150,AT2G26080,AT3G56940,AT5G20250,AT1G61520,AT1G78370,AT1G68010,AT3G61470,AT4G28750,AT3G54050,AT3G54890,AT3G08940,AT2G18700,AT5G35170,AT3G47340,AT5G35630,AT1G29910,AT3G50820,AT1G76100,AT1G08380,AT4G04640,AT1G29920,AT4G02770,AT5G48300,AT2G43100,AT4G09010,AT1G30380,AT3G16140,AT5G01530

Nitrogen metabolism KEGG:00910

AT5G04140,AT1G37130,AT3G01500,AT5G14740,AT5G35630

Glyoxylate and dicarboxylate metabolism KEGG:00630

AT2G13360,AT5G04140,AT4G33010,AT2G26080,AT1G68010,AT5G35630