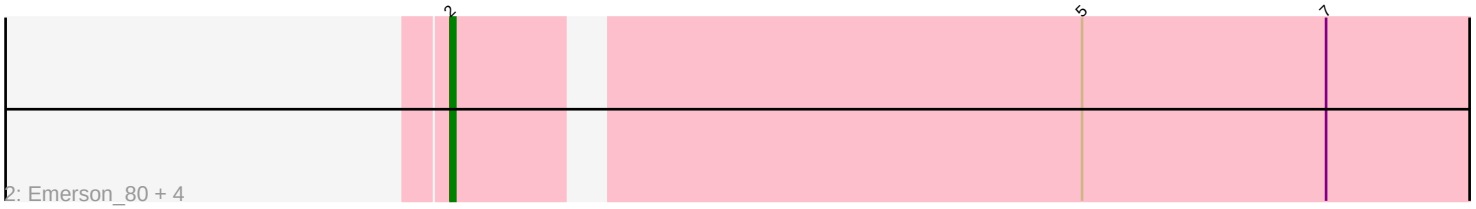
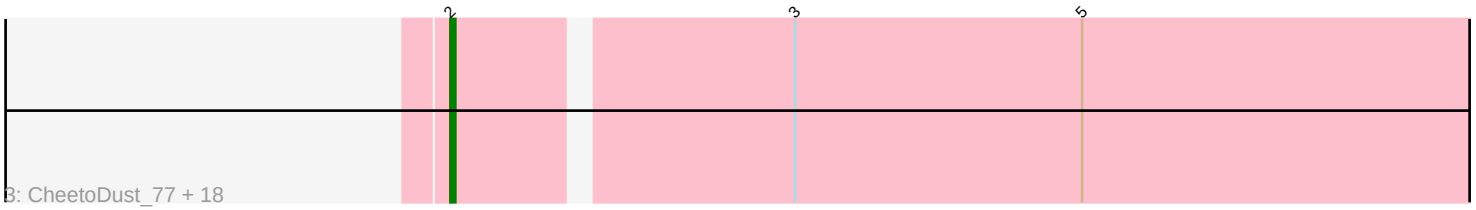
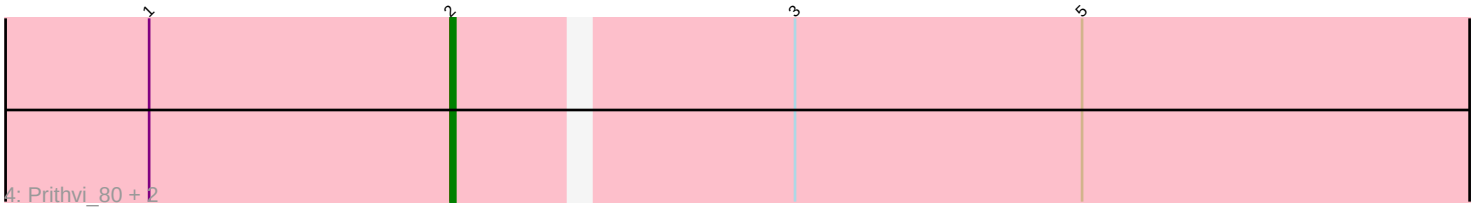
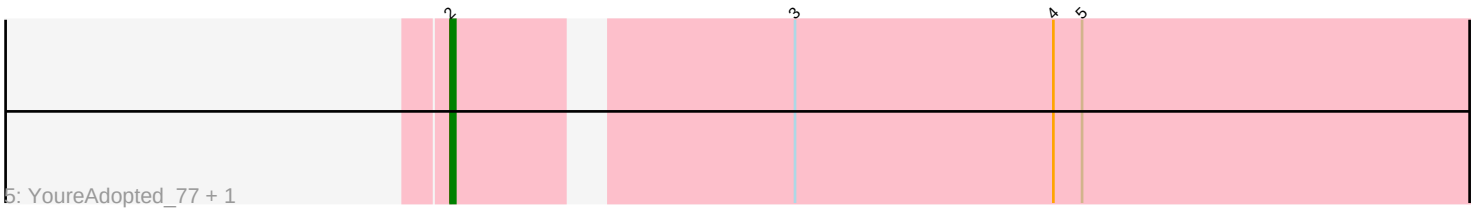
Pham 338215

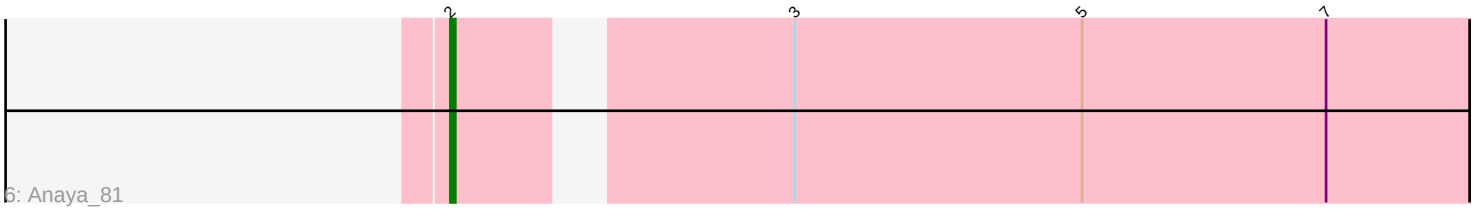

2
3
5
6
1: ActinUp_78 + 47

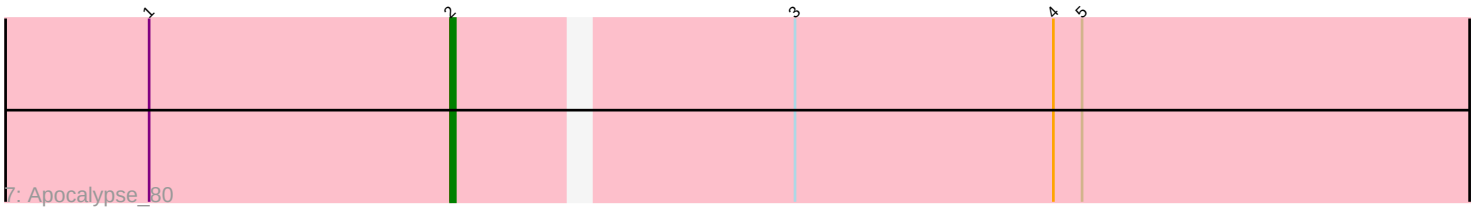

2
5
7
2: Emerson_80 + 4


2
3
5
3: CheetoDust_77 + 18


1
2
3
5
4: Prithvi_80 + 2


2
3
4
5
5: YoureAdopted_77 + 1


2
3
5
7
6: Anaya_81


1
2
3
4
5
7: Apocalypse_80

Note: Tracks are now grouped by subcluster and scaled. Switching in subcluster is indicated by changes in track color. Track scale is now set by default to display the region 30 bp upstream of start 1 to 30 bp downstream of the last possible start. If this default region is judged to be packed too tightly with annotated starts, the track will be further scaled to only show that region of the ORF with annotated starts. This action will be indicated by adding "Zoomed" to the title. For starts, yellow indicates the location of called starts comprised solely of Glimmer/GeneMark auto-annotations, green indicates the location of called starts with at least 1 manual gene annotation.

Pham 338215 Report

This analysis was run 11/14/26 on database version 672.

Pham number 338215 has 79 members, 2 are drafts.

Phages represented in each track:
• Track 1 : ActinUp_78, Jarvi_77, Asayake_77, CallaLilly_77, Capricorn_77, Twitch_77, Adonis_78, Beezoo_81, Tiri_78, Spock_77, Joy99_78, Jeckyll_77, Homura_76, Lokum_77, BaghaKamala_76, Veliki_78, Ganymede_78, Blizzard_77, QuincyRose_76, MacKat_73, Rosmarinus_77, Hyperbowlee_76, Zabiza_73, CREW_76, Clipper_81, Lunahalos_77, Atiba_78, Geraldini_80, Belladonna_77, Boiiii_77, Adephagia_76, BEEST_77, Padfoot_77, Piatt_76, Durfee_77, Llorens_77, Topper_77, Peel_77, ShiaSurprise_78, BGlluviae_77, Tachez_77, JAWS_76, Dalmuri_77, HedwigODU_77, Inky_77, MeaningOfLife_80, AlishaPH_76, CaseJules_79
• Track 2 : Emerson_80, Padpat_81, Angelica_75, Sulley_75, Ramen_78
• Track 3 : CheetoDust_77, Dole_81, Devera_84, Ageofdapage_82, TruffulaTree_79, Deby_77, Zavala_80, Megsy_82, Illumine_82, Rapunzel97_80, TaiwanKao_78, LaterM_78, Murucutumbu_78, Mynx_79, Jayhawk_80, CrimD_78, BarrelRoll_78, Pokerus_78, Slimphazie_79
• Track 4 : Prithvi_80, TreyKay_80, LindNT_76
• Track 5 : YoureAdopted_77, Stinson_79
• Track 6 : Anaya_81
• Track 7 : Apocalypse_80

Summary of Final Annotations (See graph section above for start numbers):

The start number called the most often in the published annotations is 2, it was called in 77 of the 77 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• ActinUp_78, Adephagia_76, Adonis_78, Ageofdapage_82, AlishaPH_76, Anaya_81, Angelica_75, Apocalypse_80, Asayake_77, Atiba_78, BEEST_77, BGlluviae_77, BaghaKamala_76, BarrelRoll_78, Beezoo_81, Belladonna_77, Blizzard_77, Boiiii_77, CREW_76, CallaLilly_77, Capricorn_77, CaseJules_79, CheetoDust_77, Clipper_81, CrimD_78, Dalmuri_77, Deby_77, Devera_84, Dole_81, Durfee_77, Emerson_80, Ganymede_78, Geraldini_80, HedwigODU_77, Homura_76, Hyperbowlee_76, Illumine_82, Inky_77, JAWS_76, Jarvi_77, Jayhawk_80, Jeckyll_77, Joy99_78, LaterM_78, LindNT_76, Llorens_77, Lokum_77, Lunahalos_77, MacKat_73, MeaningOfLife_80, Megsy_82, Murucutumbu_78, Mynx_79, Padfoot_77, Padpat_81,

Peel_77, Piatt_76, Pokerus_78, Prithvi_80, QuincyRose_76, Ramen_78, Rapunzel97_80, Rosmarinus_77, ShiaSurprise_78, Slimphazie_79, Spock_77, Stinson_79, Sulley_75, Tachez_77, TaiwanKao_78, Tiri_78, Topper_77, TreyKay_80, TruffulaTree_79, Twitch_77, Veliki_78, YoureAdopted_77, Zabiza_73, Zavala_80,

Genes that have the "Most Annotated" start but do not call it:
•

Genes that do not have the "Most Annotated" start:
•

Summary by start number:

Start 2:
• Found in 79 of 79 (100.0%) of genes in pham
• Manual Annotations of this start: 77 of 77
• Called 100.0% of time when present
• Phage (with cluster) where this start called: ActinUp_78 (K1), Adephagia_76 (K1), Adonis_78 (K1), Ageofdapage_82 (K1), AlishaPH_76 (K1), Anaya_81 (K1), Angelica_75 (K1), Apocalypse_80 (K1), Asayake_77 (K1), Atiba_78 (K1), BEEST_77 (K1), BGlluviae_77 (K1), BaghaKamala_76 (K1), BarrelRoll_78 (K1), Beezoo_81 (K1), Belladonna_77 (K1), Blizzard_77 (K1), Boiiii_77 (K1), CREW_76 (K1), CallaLilly_77 (K1), Capricorn_77 (K1), CaseJules_79 (K1), CheetoDust_77 (K1), Clipper_81 (K1), CrimD_78 (K1), Dalmuri_77 (K1), Deby_77 (K1), Devera_84 (K1), Dole_81 (K1), Durfee_77 (K1), Emerson_80 (K1), Ganymede_78 (K1), Geraldini_80 (K1), HedwigODU_77 (K1), Homura_76 (K1), Hyperbowlee_76 (K1), Illumine_82 (K1), Inky_77 (K1), JAWS_76 (K1), Jarvi_77 (K1), Jayhawk_80 (K1), Jeckyll_77 (K1), Joy99_78 (K1), LaterM_78 (K1), LindNT_76 (K1), Llorens_77 (K1), Lokum_77 (K1), Lunahalos_77 (K1), MacKat_73 (K1), MeaningOfLife_80 (K1), Megsy_82 (K1), Murucutumbu_78 (K1), Mynx_79 (K1), Padfoot_77 (K1), Padpat_81 (K1), Peel_77 (K1), Piatt_76 (K1), Pokerus_78 (K1), Prithvi_80 (K1), QuincyRose_76 (K1), Ramen_78 (K1), Rapunzel97_80 (K1), Rosmarinus_77 (K1), ShiaSurprise_78 (K1), Slimphazie_79 (K1), Spock_77 (K1), Stinson_79 (K1), Sulley_75 (K1), Tachez_77 (K1), TaiwanKao_78 (K1), Tiri_78 (K1), Topper_77 (K1), TreyKay_80 (K1), TruffulaTree_79 (K1), Twitch_77 (K1), Veliki_78 (K1), YoureAdopted_77 (K1), Zabiza_73 (K1), Zavala_80 (K1),

Summary by clusters:

There is one cluster represented in this pham: K1

Info for manual annotations of cluster K1:
•Start number 2 was manually annotated 77 times for cluster K1.

Gene Information:

Gene: ActinUp_78 Start: 51092, Stop: 51367, Start Num: 2
Candidate Starts for ActinUp_78:
(Start: 2 @51092 has 77 MA's), (3, 51155), (5, 51215), (6, 51245),

Gene: Adephagia_76 Start: 50929, Stop: 51204, Start Num: 2

Candidate Starts for Adephagia_76:
(Start: 2 @50929 has 77 MA's), (3, 50992), (5, 51052), (6, 51082),

Gene: Adonis_78 Start: 51396, Stop: 51671, Start Num: 2
Candidate Starts for Adonis_78:
(Start: 2 @51396 has 77 MA's), (3, 51459), (5, 51519), (6, 51549),

Gene: Ageofdapage_82 Start: 52310, Stop: 52585, Start Num: 2
Candidate Starts for Ageofdapage_82:
(Start: 2 @52310 has 77 MA's), (3, 52373), (5, 52433),

Gene: AlishaPH_76 Start: 51190, Stop: 51465, Start Num: 2
Candidate Starts for AlishaPH_76:
(Start: 2 @51190 has 77 MA's), (3, 51253), (5, 51313), (6, 51343),

Gene: Anaya_81 Start: 51979, Stop: 52251, Start Num: 2
Candidate Starts for Anaya_81:
(Start: 2 @51979 has 77 MA's), (3, 52039), (5, 52099), (7, 52150),

Gene: Angelica_75 Start: 50513, Stop: 50788, Start Num: 2
Candidate Starts for Angelica_75:
(Start: 2 @50513 has 77 MA's), (5, 50636), (7, 50687),

Gene: Apocalypse_80 Start: 51724, Stop: 52002, Start Num: 2
Candidate Starts for Apocalypse_80:
(1, 51661), (Start: 2 @51724 has 77 MA's), (3, 51790), (4, 51844), (5, 51850),

Gene: Asayake_77 Start: 51244, Stop: 51519, Start Num: 2
Candidate Starts for Asayake_77:
(Start: 2 @51244 has 77 MA's), (3, 51307), (5, 51367), (6, 51397),

Gene: Atiba_78 Start: 50892, Stop: 51167, Start Num: 2
Candidate Starts for Atiba_78:
(Start: 2 @50892 has 77 MA's), (3, 50955), (5, 51015), (6, 51045),

Gene: BEEST_77 Start: 51244, Stop: 51519, Start Num: 2
Candidate Starts for BEEST_77:
(Start: 2 @51244 has 77 MA's), (3, 51307), (5, 51367), (6, 51397),

Gene: BGlluviae_77 Start: 51047, Stop: 51322, Start Num: 2
Candidate Starts for BGlluviae_77:
(Start: 2 @51047 has 77 MA's), (3, 51110), (5, 51170), (6, 51200),

Gene: BaghaKamala_76 Start: 50478, Stop: 50753, Start Num: 2
Candidate Starts for BaghaKamala_76:
(Start: 2 @50478 has 77 MA's), (3, 50541), (5, 50601), (6, 50631),

Gene: BarrelRoll_78 Start: 51441, Stop: 51719, Start Num: 2
Candidate Starts for BarrelRoll_78:
(Start: 2 @51441 has 77 MA's), (3, 51507), (5, 51567),

Gene: Beezoo_81 Start: 52057, Stop: 52332, Start Num: 2
Candidate Starts for Beezoo_81:

(Start: 2 @52057 has 77 MA's), (3, 52120), (5, 52180), (6, 52210),

Gene: Belladonna_77 Start: 51047, Stop: 51322, Start Num: 2
Candidate Starts for Belladonna_77:
(Start: 2 @51047 has 77 MA's), (3, 51110), (5, 51170), (6, 51200),

Gene: Blizzard_77 Start: 51244, Stop: 51519, Start Num: 2
Candidate Starts for Blizzard_77:
(Start: 2 @51244 has 77 MA's), (3, 51307), (5, 51367), (6, 51397),

Gene: Boiiii_77 Start: 51246, Stop: 51521, Start Num: 2
Candidate Starts for Boiiii_77:
(Start: 2 @51246 has 77 MA's), (3, 51309), (5, 51369), (6, 51399),

Gene: CREW_76 Start: 51047, Stop: 51322, Start Num: 2
Candidate Starts for CREW_76:
(Start: 2 @51047 has 77 MA's), (3, 51110), (5, 51170), (6, 51200),

Gene: CallaLilly_77 Start: 50970, Stop: 51245, Start Num: 2
Candidate Starts for CallaLilly_77:
(Start: 2 @50970 has 77 MA's), (3, 51033), (5, 51093), (6, 51123),

Gene: Capricorn_77 Start: 51047, Stop: 51322, Start Num: 2
Candidate Starts for Capricorn_77:
(Start: 2 @51047 has 77 MA's), (3, 51110), (5, 51170), (6, 51200),

Gene: CaseJules_79 Start: 51244, Stop: 51519, Start Num: 2
Candidate Starts for CaseJules_79:
(Start: 2 @51244 has 77 MA's), (3, 51307), (5, 51367), (6, 51397),

Gene: CheetoDust_77 Start: 50636, Stop: 50914, Start Num: 2
Candidate Starts for CheetoDust_77:
(Start: 2 @50636 has 77 MA's), (3, 50702), (5, 50762),

Gene: Clipper_81 Start: 51610, Stop: 51885, Start Num: 2
Candidate Starts for Clipper_81:
(Start: 2 @51610 has 77 MA's), (3, 51673), (5, 51733), (6, 51763),

Gene: CrimD_78 Start: 51499, Stop: 51777, Start Num: 2
Candidate Starts for CrimD_78:
(Start: 2 @51499 has 77 MA's), (3, 51565), (5, 51625),

Gene: Dalmuri_77 Start: 51047, Stop: 51322, Start Num: 2
Candidate Starts for Dalmuri_77:
(Start: 2 @51047 has 77 MA's), (3, 51110), (5, 51170), (6, 51200),

Gene: Deby_77 Start: 51408, Stop: 51686, Start Num: 2
Candidate Starts for Deby_77:
(Start: 2 @51408 has 77 MA's), (3, 51474), (5, 51534),

Gene: Devera_84 Start: 52293, Stop: 52568, Start Num: 2
Candidate Starts for Devera_84:
(Start: 2 @52293 has 77 MA's), (3, 52356), (5, 52416),

Gene: Dole_81 Start: 52296, Stop: 52571, Start Num: 2
Candidate Starts for Dole_81:
(Start: 2 @52296 has 77 MA's), (3, 52359), (5, 52419),

Gene: Durfee_77 Start: 51244, Stop: 51519, Start Num: 2
Candidate Starts for Durfee_77:
(Start: 2 @51244 has 77 MA's), (3, 51307), (5, 51367), (6, 51397),

Gene: Emerson_80 Start: 51474, Stop: 51749, Start Num: 2
Candidate Starts for Emerson_80:
(Start: 2 @51474 has 77 MA's), (5, 51597), (7, 51648),

Gene: Ganymede_78 Start: 51485, Stop: 51760, Start Num: 2
Candidate Starts for Ganymede_78:
(Start: 2 @51485 has 77 MA's), (3, 51548), (5, 51608), (6, 51638),

Gene: Geraldini_80 Start: 51505, Stop: 51780, Start Num: 2
Candidate Starts for Geraldini_80:
(Start: 2 @51505 has 77 MA's), (3, 51568), (5, 51628), (6, 51658),

Gene: HedwigODU_77 Start: 51092, Stop: 51367, Start Num: 2
Candidate Starts for HedwigODU_77:
(Start: 2 @51092 has 77 MA's), (3, 51155), (5, 51215), (6, 51245),

Gene: Homura_76 Start: 51047, Stop: 51322, Start Num: 2
Candidate Starts for Homura_76:
(Start: 2 @51047 has 77 MA's), (3, 51110), (5, 51170), (6, 51200),

Gene: Hyperbowlee_76 Start: 51244, Stop: 51519, Start Num: 2
Candidate Starts for Hyperbowlee_76:
(Start: 2 @51244 has 77 MA's), (3, 51307), (5, 51367), (6, 51397),

Gene: Illumine_82 Start: 52295, Stop: 52570, Start Num: 2
Candidate Starts for Illumine_82:
(Start: 2 @52295 has 77 MA's), (3, 52358), (5, 52418),

Gene: Inky_77 Start: 51047, Stop: 51322, Start Num: 2
Candidate Starts for Inky_77:
(Start: 2 @51047 has 77 MA's), (3, 51110), (5, 51170), (6, 51200),

Gene: JAWS_76 Start: 51009, Stop: 51284, Start Num: 2
Candidate Starts for JAWS_76:
(Start: 2 @51009 has 77 MA's), (3, 51072), (5, 51132), (6, 51162),

Gene: Jarvi_77 Start: 51047, Stop: 51322, Start Num: 2
Candidate Starts for Jarvi_77:
(Start: 2 @51047 has 77 MA's), (3, 51110), (5, 51170), (6, 51200),

Gene: Jayhawk_80 Start: 51501, Stop: 51779, Start Num: 2
Candidate Starts for Jayhawk_80:
(Start: 2 @51501 has 77 MA's), (3, 51567), (5, 51627),

Gene: Jeckyll_77 Start: 51047, Stop: 51322, Start Num: 2
Candidate Starts for Jeckyll_77:
(Start: 2 @51047 has 77 MA's), (3, 51110), (5, 51170), (6, 51200),

Gene: Joy99_78 Start: 51176, Stop: 51451, Start Num: 2
Candidate Starts for Joy99_78:
(Start: 2 @51176 has 77 MA's), (3, 51239), (5, 51299), (6, 51329),

Gene: LaterM_78 Start: 51728, Stop: 52003, Start Num: 2
Candidate Starts for LaterM_78:
(Start: 2 @51728 has 77 MA's), (3, 51791), (5, 51851),

Gene: LindNT_76 Start: 51505, Stop: 51783, Start Num: 2
Candidate Starts for LindNT_76:
(1, 51442), (Start: 2 @51505 has 77 MA's), (3, 51571), (5, 51631),

Gene: Llorens_77 Start: 51047, Stop: 51322, Start Num: 2
Candidate Starts for Llorens_77:
(Start: 2 @51047 has 77 MA's), (3, 51110), (5, 51170), (6, 51200),

Gene: Lokum_77 Start: 51048, Stop: 51323, Start Num: 2
Candidate Starts for Lokum_77:
(Start: 2 @51048 has 77 MA's), (3, 51111), (5, 51171), (6, 51201),

Gene: Lunahalos_77 Start: 51047, Stop: 51322, Start Num: 2
Candidate Starts for Lunahalos_77:
(Start: 2 @51047 has 77 MA's), (3, 51110), (5, 51170), (6, 51200),

Gene: MacKat_73 Start: 46494, Stop: 46769, Start Num: 2
Candidate Starts for MacKat_73:
(Start: 2 @46494 has 77 MA's), (3, 46557), (5, 46617), (6, 46647),

Gene: MeaningOfLife_80 Start: 52031, Stop: 52306, Start Num: 2
Candidate Starts for MeaningOfLife_80:
(Start: 2 @52031 has 77 MA's), (3, 52094), (5, 52154), (6, 52184),

Gene: Megsy_82 Start: 51681, Stop: 51956, Start Num: 2
Candidate Starts for Megsy_82:
(Start: 2 @51681 has 77 MA's), (3, 51744), (5, 51804),

Gene: Murucutumbu_78 Start: 52281, Stop: 52556, Start Num: 2
Candidate Starts for Murucutumbu_78:
(Start: 2 @52281 has 77 MA's), (3, 52344), (5, 52404),

Gene: Mynx_79 Start: 51778, Stop: 52062, Start Num: 2
Candidate Starts for Mynx_79:
(Start: 2 @51778 has 77 MA's), (3, 51850), (5, 51910),

Gene: Padfoot_77 Start: 51244, Stop: 51519, Start Num: 2
Candidate Starts for Padfoot_77:
(Start: 2 @51244 has 77 MA's), (3, 51307), (5, 51367), (6, 51397),

Gene: Padpat_81 Start: 51474, Stop: 51749, Start Num: 2

Candidate Starts for Padpat_81:
(Start: 2 @51474 has 77 MA's), (5, 51597), (7, 51648),

Gene: Peel_77 Start: 51049, Stop: 51324, Start Num: 2
Candidate Starts for Peel_77:
(Start: 2 @51049 has 77 MA's), (3, 51112), (5, 51172), (6, 51202),

Gene: Piatt_76 Start: 51244, Stop: 51519, Start Num: 2
Candidate Starts for Piatt_76:
(Start: 2 @51244 has 77 MA's), (3, 51307), (5, 51367), (6, 51397),

Gene: Pokerus_78 Start: 51484, Stop: 51762, Start Num: 2
Candidate Starts for Pokerus_78:
(Start: 2 @51484 has 77 MA's), (3, 51550), (5, 51610),

Gene: Prithvi_80 Start: 51505, Stop: 51783, Start Num: 2
Candidate Starts for Prithvi_80:
(1, 51442), (Start: 2 @51505 has 77 MA's), (3, 51571), (5, 51631),

Gene: QuincyRose_76 Start: 51485, Stop: 51760, Start Num: 2
Candidate Starts for QuincyRose_76:
(Start: 2 @51485 has 77 MA's), (3, 51548), (5, 51608), (6, 51638),

Gene: Ramen_78 Start: 50804, Stop: 51082, Start Num: 2
Candidate Starts for Ramen_78:
(Start: 2 @50804 has 77 MA's), (5, 50930), (7, 50981),

Gene: Rapunzel97_80 Start: 51456, Stop: 51734, Start Num: 2
Candidate Starts for Rapunzel97_80:
(Start: 2 @51456 has 77 MA's), (3, 51522), (5, 51582),

Gene: Rosmarinus_77 Start: 51035, Stop: 51310, Start Num: 2
Candidate Starts for Rosmarinus_77:
(Start: 2 @51035 has 77 MA's), (3, 51098), (5, 51158), (6, 51188),

Gene: ShiaSurprise_78 Start: 51244, Stop: 51519, Start Num: 2
Candidate Starts for ShiaSurprise_78:
(Start: 2 @51244 has 77 MA's), (3, 51307), (5, 51367), (6, 51397),

Gene: Slimphazie_79 Start: 51456, Stop: 51734, Start Num: 2
Candidate Starts for Slimphazie_79:
(Start: 2 @51456 has 77 MA's), (3, 51522), (5, 51582),

Gene: Spock_77 Start: 51048, Stop: 51323, Start Num: 2
Candidate Starts for Spock_77:
(Start: 2 @51048 has 77 MA's), (3, 51111), (5, 51171), (6, 51201),

Gene: Stinson_79 Start: 51663, Stop: 51938, Start Num: 2
Candidate Starts for Stinson_79:
(Start: 2 @51663 has 77 MA's), (3, 51726), (4, 51780), (5, 51786),

Gene: Sulley_75 Start: 50539, Stop: 50814, Start Num: 2
Candidate Starts for Sulley_75:

(Start: 2 @50539 has 77 MA's), (5, 50662), (7, 50713),

Gene: Tachez_77 Start: 50892, Stop: 51167, Start Num: 2
Candidate Starts for Tachez_77:
(Start: 2 @50892 has 77 MA's), (3, 50955), (5, 51015), (6, 51045),

Gene: TaiwanKao_78 Start: 51029, Stop: 51304, Start Num: 2
Candidate Starts for TaiwanKao_78:
(Start: 2 @51029 has 77 MA's), (3, 51092), (5, 51152),

Gene: Tiri_78 Start: 50977, Stop: 51252, Start Num: 2
Candidate Starts for Tiri_78:
(Start: 2 @50977 has 77 MA's), (3, 51040), (5, 51100), (6, 51130),

Gene: Topper_77 Start: 51047, Stop: 51322, Start Num: 2
Candidate Starts for Topper_77:
(Start: 2 @51047 has 77 MA's), (3, 51110), (5, 51170), (6, 51200),

Gene: TreyKay_80 Start: 51505, Stop: 51783, Start Num: 2
Candidate Starts for TreyKay_80:
(1, 51442), (Start: 2 @51505 has 77 MA's), (3, 51571), (5, 51631),

Gene: TruffulaTree_79 Start: 51452, Stop: 51730, Start Num: 2
Candidate Starts for TruffulaTree_79:
(Start: 2 @51452 has 77 MA's), (3, 51518), (5, 51578),

Gene: Twitch_77 Start: 51049, Stop: 51324, Start Num: 2
Candidate Starts for Twitch_77:
(Start: 2 @51049 has 77 MA's), (3, 51112), (5, 51172), (6, 51202),

Gene: Veliki_78 Start: 51000, Stop: 51275, Start Num: 2
Candidate Starts for Veliki_78:
(Start: 2 @51000 has 77 MA's), (3, 51063), (5, 51123), (6, 51153),

Gene: YoureAdopted_77 Start: 51270, Stop: 51545, Start Num: 2
Candidate Starts for YoureAdopted_77:
(Start: 2 @51270 has 77 MA's), (3, 51333), (4, 51387), (5, 51393),

Gene: Zabiza_73 Start: 47397, Stop: 47672, Start Num: 2
Candidate Starts for Zabiza_73:
(Start: 2 @47397 has 77 MA's), (3, 47460), (5, 47520), (6, 47550),

Gene: Zavala_80 Start: 51530, Stop: 51808, Start Num: 2
Candidate Starts for Zavala_80:
(Start: 2 @51530 has 77 MA's), (3, 51596), (5, 51656),