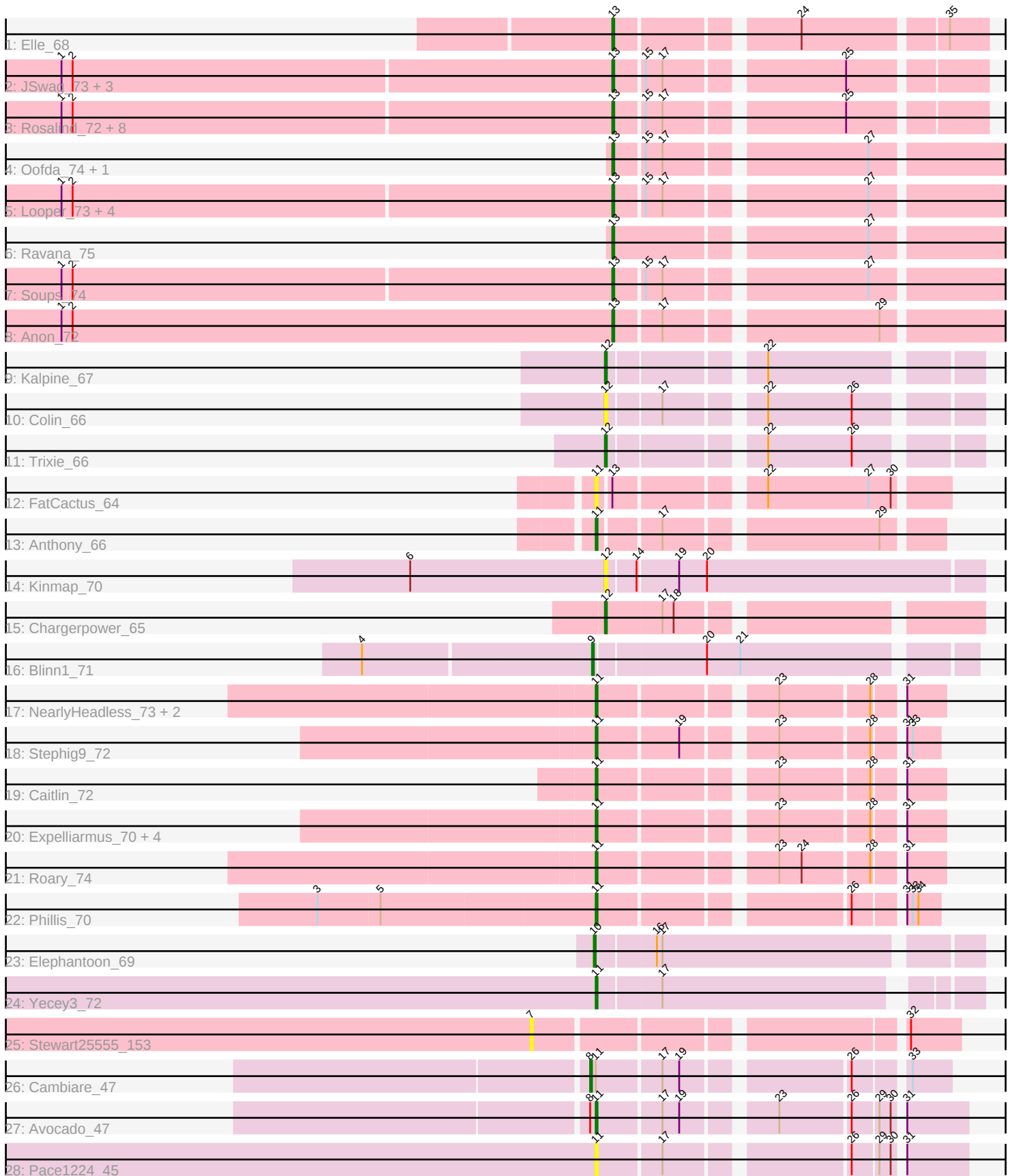


Pham 330949



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 330949 Report

This analysis was run 09/05/26 on database version 662.

Pham number 330949 has 50 members, 5 are drafts.

Phages represented in each track:

- Track 1 : Elle_68
- Track 2 : JSwag_73, Strosahl_74, Waits_74, Remus_74
- Track 3 : Rosalind_72, KatherineG_74, Switzerland_73, MinecraftSteve_74, Epsocamisio_70, DekHockey33_75, ShayRa_74, Nebulosus_71, Battleship_76
- Track 4 : Oofda_74, Warrior24_75
- Track 5 : Looper_73, Boohoo_74, LastResort_72, Anaysia_74, ReMo_72
- Track 6 : Ravana_75
- Track 7 : Soups_74
- Track 8 : Anon_72
- Track 9 : Kalpine_67
- Track 10 : Colin_66
- Track 11 : Trixie_66
- Track 12 : FatCactus_64
- Track 13 : Anthony_66
- Track 14 : Kinmap_70
- Track 15 : Chargerpower_65
- Track 16 : Blinn1_71
- Track 17 : NearlyHeadless_73, Saintus_68, Dixon_72
- Track 18 : Stephig9_72
- Track 19 : Caitlin_72
- Track 20 : Expelliarmus_70, Groundhog_72, Astro_73, Danforth_73, Smeadley_73
- Track 21 : Roary_74
- Track 22 : Phillis_70
- Track 23 : Elephantoon_69
- Track 24 : Yecey3_72
- Track 25 : Stewart25555_153
- Track 26 : Cambiare_47
- Track 27 : Avocado_47
- Track 28 : Pace1224_45

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

The start number called the most often in the published annotations is 13, it was called in 24 of the 45 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Anaysia_74, Anon_72, Battleship_76, Boohoo_74, DekHockey33_75, Elle_68, Epsocamisio_70, JSwag_73, KatherineG_74, LastResort_72, Looper_73, MinecraftSteve_74, Nebulosus_71, Oofda_74, Ravana_75, ReMo_72, Remus_74, Rosalind_72, ShayRa_74, Soups_74, Strosahl_74, Switzerland_73, Waits_74, Warrior24_75,

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

- FatCactus_64,

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

- Anthony_66, Astro_73, Avocado_47, Blinn1_71, Caitlin_72, Cambiare_47, Chargerpower_65, Colin_66, Danforth_73, Dixon_72, Elephantoon_69, Expelliarmus_70, Groundhog_72, Kalpine_67, Kinmap_70, NearlyHeadless_73, Pace1224_45, Phillis_70, Roary_74, Saintus_68, Smeadley_73, Stephig9_72, Stewart25555_153, Trixie_66, Yecey3_72,

Summary by start number:

Start 7:

- Found in 1 of 50 (2.0%) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Stewart25555_153 (FC),

Start 8:

- Found in 2 of 50 (4.0%) of genes in pham
- Manual Annotations of this start: 1 of 45
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Cambiare_47 (G2),

Start 9:

- Found in 1 of 50 (2.0%) of genes in pham
- Manual Annotations of this start: 1 of 45
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Blinn1_71 (A6),

Start 10:

- Found in 1 of 50 (2.0%) of genes in pham
- Manual Annotations of this start: 1 of 45
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Elephantoon_69 (A9),

Start 11:

- Found in 18 of 50 (36.0%) of genes in pham
- Manual Annotations of this start: 15 of 45
- Called 94.4% of time when present
- Phage (with cluster) where this start called: Anthony_66 (A20), Astro_73 (A8), Avocado_47 (G2), Caitlin_72 (A8), Danforth_73 (A8), Dixon_72 (A8), Expelliarmus_70 (A8), FatCactus_64 (A20), Groundhog_72 (A8), NearlyHeadless_73 (A8), Pace1224_45 (G2), Phillis_70 (A8), Roary_74 (A8), Saintus_68 (A8), Smeadley_73 (A8), Stephig9_72 (A8), Yecey3_72 (A9),

Start 12:

- Found in 5 of 50 (10.0%) of genes in pham
- Manual Annotations of this start: 3 of 45
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Chargerpower_65 (A22), Colin_66 (A2), Kalpine_67 (A2), Kinmap_70 (A21), Trixie_66 (A2),

Start 13:

- Found in 25 of 50 (50.0%) of genes in pham
- Manual Annotations of this start: 24 of 45
- Called 96.0% of time when present
- Phage (with cluster) where this start called: Anaysia_74 (A15), Anon_72 (A15), Battleship_76 (A15), Boohoo_74 (A15), DekHockey33_75 (A15), Elle_68 (A15), Epsocamisio_70 (A15), JSwag_73 (A15), KatherineG_74 (A15), LastResort_72 (A15), Looper_73 (A15), MinecraftSteve_74 (A15), Nebulosus_71 (A15), Oofda_74 (A15), Ravana_75 (A15), ReMo_72 (A15), Remus_74 (A15), Rosalind_72 (A15), ShayRa_74 (A15), Soups_74 (A15), Strosahl_74 (A15), Switzerland_73 (A15), Waits_74 (A15), Warrior24_75 (A15),

Summary by clusters:

There are 10 clusters represented in this pham: A15, A20, A22, G2, A21, FC, A6, A9, A8, A2,

Info for manual annotations of cluster A15:

- Start number 13 was manually annotated 24 times for cluster A15.

Info for manual annotations of cluster A2:

- Start number 12 was manually annotated 2 times for cluster A2.

Info for manual annotations of cluster A20:

- Start number 11 was manually annotated 1 time for cluster A20.

Info for manual annotations of cluster A22:

- Start number 12 was manually annotated 1 time for cluster A22.

Info for manual annotations of cluster A6:

- Start number 9 was manually annotated 1 time for cluster A6.

Info for manual annotations of cluster A8:

- Start number 11 was manually annotated 12 times for cluster A8.

Info for manual annotations of cluster A9:

- Start number 10 was manually annotated 1 time for cluster A9.
- Start number 11 was manually annotated 1 time for cluster A9.

Info for manual annotations of cluster G2:

- Start number 8 was manually annotated 1 time for cluster G2.
- Start number 11 was manually annotated 1 time for cluster G2.

Gene Information:

Gene: Anaysia_74 Start: 40835, Stop: 40641, Start Num: 13

Candidate Starts for Anaysia_74:

(1, 41129), (2, 41123), (Start: 13 @40835 has 24 MA's), (15, 40820), (17, 40811), (27, 40712),

Gene: Anon_72 Start: 40724, Stop: 40530, Start Num: 13

Candidate Starts for Anon_72:

(1, 41021), (2, 41015), (Start: 13 @40724 has 24 MA's), (17, 40700), (29, 40595),

Gene: Anthony_66 Start: 40829, Stop: 40665, Start Num: 11

Candidate Starts for Anthony_66:

(Start: 11 @40829 has 15 MA's), (17, 40799), (29, 40694),

Gene: Astro_73 Start: 40939, Stop: 40778, Start Num: 11

Candidate Starts for Astro_73:

(Start: 11 @40939 has 15 MA's), (23, 40855), (28, 40810), (31, 40798),

Gene: Avocado_47 Start: 37189, Stop: 37362, Start Num: 11

Candidate Starts for Avocado_47:

(Start: 8 @37186 has 1 MA's), (Start: 11 @37189 has 15 MA's), (17, 37222), (19, 37231), (23, 37273), (26, 37309), (29, 37321), (30, 37327), (31, 37330),

Gene: Battleship_76 Start: 41041, Stop: 40862, Start Num: 13

Candidate Starts for Battleship_76:

(1, 41335), (2, 41329), (Start: 13 @41041 has 24 MA's), (15, 41026), (17, 41017), (25, 40930),

Gene: Blinn1_71 Start: 39967, Stop: 39776, Start Num: 9

Candidate Starts for Blinn1_71:

(4, 40087), (Start: 9 @39967 has 1 MA's), (20, 39910), (21, 39892),

Gene: Boohoo_74 Start: 40835, Stop: 40641, Start Num: 13

Candidate Starts for Boohoo_74:

(1, 41129), (2, 41123), (Start: 13 @40835 has 24 MA's), (15, 40820), (17, 40811), (27, 40712),

Gene: Caitlin_72 Start: 40640, Stop: 40479, Start Num: 11

Candidate Starts for Caitlin_72:

(Start: 11 @40640 has 15 MA's), (23, 40556), (28, 40511), (31, 40499),

Gene: Cambiare_47 Start: 37281, Stop: 37448, Start Num: 8

Candidate Starts for Cambiare_47:

(Start: 8 @37281 has 1 MA's), (Start: 11 @37284 has 15 MA's), (17, 37317), (19, 37326), (26, 37404), (33, 37428),

Gene: Chargerpower_65 Start: 39591, Stop: 39409, Start Num: 12

Candidate Starts for Chargerpower_65:

(Start: 12 @39591 has 3 MA's), (17, 39561), (18, 39555),

Gene: Colin_66 Start: 42014, Stop: 41838, Start Num: 12

Candidate Starts for Colin_66:

(Start: 12 @42014 has 3 MA's), (17, 41987), (22, 41942), (26, 41897),

Gene: Danforth_73 Start: 40987, Stop: 40826, Start Num: 11

Candidate Starts for Danforth_73:

(Start: 11 @40987 has 15 MA's), (23, 40903), (28, 40858), (31, 40846),

Gene: DekHockey33_75 Start: 41126, Stop: 40947, Start Num: 13

Candidate Starts for DekHockey33_75:

(1, 41420), (2, 41414), (Start: 13 @41126 has 24 MA's), (15, 41111), (17, 41102), (25, 41015),

Gene: Dixon_72 Start: 40507, Stop: 40346, Start Num: 11

Candidate Starts for Dixon_72:

(Start: 11 @40507 has 15 MA's), (23, 40423), (28, 40378), (31, 40366),

Gene: Elephantoon_69 Start: 40932, Stop: 40738, Start Num: 10

Candidate Starts for Elephantoon_69:

(Start: 10 @40932 has 1 MA's), (16, 40902), (17, 40899),

Gene: Elle_68 Start: 39328, Stop: 39149, Start Num: 13

Candidate Starts for Elle_68:

(Start: 13 @39328 has 24 MA's), (24, 39241), (35, 39169),

Gene: Epsocamisio_70 Start: 40273, Stop: 40094, Start Num: 13

Candidate Starts for Epsocamisio_70:

(1, 40567), (2, 40561), (Start: 13 @40273 has 24 MA's), (15, 40258), (17, 40249), (25, 40162),

Gene: Expelliarmus_70 Start: 40711, Stop: 40550, Start Num: 11

Candidate Starts for Expelliarmus_70:

(Start: 11 @40711 has 15 MA's), (23, 40627), (28, 40582), (31, 40570),

Gene: FatCactus_64 Start: 40465, Stop: 40298, Start Num: 11

Candidate Starts for FatCactus_64:

(Start: 11 @40465 has 15 MA's), (Start: 13 @40459 has 24 MA's), (22, 40390), (27, 40336), (30, 40324),

Gene: Groundhog_72 Start: 40917, Stop: 40756, Start Num: 11

Candidate Starts for Groundhog_72:

(Start: 11 @40917 has 15 MA's), (23, 40833), (28, 40788), (31, 40776),

Gene: JSwag_73 Start: 40558, Stop: 40379, Start Num: 13

Candidate Starts for JSwag_73:

(1, 40852), (2, 40846), (Start: 13 @40558 has 24 MA's), (15, 40543), (17, 40534), (25, 40447),

Gene: Kalpine_67 Start: 42195, Stop: 42019, Start Num: 12

Candidate Starts for Kalpine_67:

(Start: 12 @42195 has 3 MA's), (22, 42123),

Gene: KatherineG_74 Start: 41031, Stop: 40852, Start Num: 13

Candidate Starts for KatherineG_74:

(1, 41325), (2, 41319), (Start: 13 @41031 has 24 MA's), (15, 41016), (17, 41007), (25, 40920),

Gene: Kinmap_70 Start: 40504, Stop: 40307, Start Num: 12

Candidate Starts for Kinmap_70:

(6, 40609), (Start: 12 @40504 has 3 MA's), (14, 40489), (19, 40468), (20, 40453),

Gene: LastResort_72 Start: 40611, Stop: 40417, Start Num: 13

Candidate Starts for LastResort_72:

(1, 40905), (2, 40899), (Start: 13 @40611 has 24 MA's), (15, 40596), (17, 40587), (27, 40488),

Gene: Looper_73 Start: 40523, Stop: 40329, Start Num: 13

Candidate Starts for Looper_73:

(1, 40817), (2, 40811), (Start: 13 @40523 has 24 MA's), (15, 40508), (17, 40499), (27, 40400),

Gene: MinecraftSteve_74 Start: 40846, Stop: 40667, Start Num: 13

Candidate Starts for MinecraftSteve_74:

(1, 41140), (2, 41134), (Start: 13 @40846 has 24 MA's), (15, 40831), (17, 40822), (25, 40735),

Gene: NearlyHeadless_73 Start: 40753, Stop: 40592, Start Num: 11

Candidate Starts for NearlyHeadless_73:

(Start: 11 @40753 has 15 MA's), (23, 40669), (28, 40624), (31, 40612),

Gene: Nebulosus_71 Start: 40510, Stop: 40331, Start Num: 13

Candidate Starts for Nebulosus_71:

(1, 40804), (2, 40798), (Start: 13 @40510 has 24 MA's), (15, 40495), (17, 40486), (25, 40399),

Gene: Oofda_74 Start: 40724, Stop: 40530, Start Num: 13

Candidate Starts for Oofda_74:

(Start: 13 @40724 has 24 MA's), (15, 40709), (17, 40700), (27, 40601),

Gene: Pace1224_45 Start: 36103, Stop: 36276, Start Num: 11

Candidate Starts for Pace1224_45:

(Start: 11 @36103 has 15 MA's), (17, 36136), (26, 36223), (29, 36235), (30, 36241), (31, 36244),

Gene: Phillis_70 Start: 40207, Stop: 40049, Start Num: 11

Candidate Starts for Phillis_70:

(3, 40354), (5, 40321), (Start: 11 @40207 has 15 MA's), (26, 40087), (31, 40066), (33, 40063), (34, 40060),

Gene: Ravana_75 Start: 41923, Stop: 41726, Start Num: 13

Candidate Starts for Ravana_75:

(Start: 13 @41923 has 24 MA's), (27, 41797),

Gene: ReMo_72 Start: 40608, Stop: 40414, Start Num: 13

Candidate Starts for ReMo_72:

(1, 40902), (2, 40896), (Start: 13 @40608 has 24 MA's), (15, 40593), (17, 40584), (27, 40485),

Gene: Remus_74 Start: 40598, Stop: 40419, Start Num: 13

Candidate Starts for Remus_74:

(1, 40892), (2, 40886), (Start: 13 @40598 has 24 MA's), (15, 40583), (17, 40574), (25, 40487),

Gene: Roary_74 Start: 40972, Stop: 40811, Start Num: 11

Candidate Starts for Roary_74:

(Start: 11 @40972 has 15 MA's), (23, 40888), (24, 40876), (28, 40843), (31, 40831),

Gene: Rosalind_72 Start: 40765, Stop: 40586, Start Num: 13

Candidate Starts for Rosalind_72:

(1, 41059), (2, 41053), (Start: 13 @40765 has 24 MA's), (15, 40750), (17, 40741), (25, 40654),

Gene: Saintus_68 Start: 37637, Stop: 37476, Start Num: 11
Candidate Starts for Saintus_68:
(Start: 11 @37637 has 15 MA's), (23, 37553), (28, 37508), (31, 37496),

Gene: ShayRa_74 Start: 40794, Stop: 40615, Start Num: 13
Candidate Starts for ShayRa_74:
(1, 41088), (2, 41082), (Start: 13 @40794 has 24 MA's), (15, 40779), (17, 40770), (25, 40683),

Gene: Smeadley_73 Start: 40833, Stop: 40672, Start Num: 11
Candidate Starts for Smeadley_73:
(Start: 11 @40833 has 15 MA's), (23, 40749), (28, 40704), (31, 40692),

Gene: Soups_74 Start: 41058, Stop: 40864, Start Num: 13
Candidate Starts for Soups_74:
(1, 41352), (2, 41346), (Start: 13 @41058 has 24 MA's), (15, 41043), (17, 41034), (27, 40935),

Gene: Stephig9_72 Start: 40770, Stop: 40612, Start Num: 11
Candidate Starts for Stephig9_72:
(Start: 11 @40770 has 15 MA's), (19, 40728), (23, 40686), (28, 40641), (31, 40629), (33, 40626),

Gene: Stewart25555_153 Start: 108142, Stop: 108345, Start Num: 7
Candidate Starts for Stewart25555_153:
(7, 108142), (32, 108319),

Gene: Strosahl_74 Start: 40598, Stop: 40419, Start Num: 13
Candidate Starts for Strosahl_74:
(1, 40892), (2, 40886), (Start: 13 @40598 has 24 MA's), (15, 40583), (17, 40574), (25, 40487),

Gene: Switzerland_73 Start: 40933, Stop: 40754, Start Num: 13
Candidate Starts for Switzerland_73:
(1, 41227), (2, 41221), (Start: 13 @40933 has 24 MA's), (15, 40918), (17, 40909), (25, 40822),

Gene: Trixie_66 Start: 41830, Stop: 41654, Start Num: 12
Candidate Starts for Trixie_66:
(Start: 12 @41830 has 3 MA's), (22, 41758), (26, 41713),

Gene: Waits_74 Start: 40830, Stop: 40651, Start Num: 13
Candidate Starts for Waits_74:
(1, 41124), (2, 41118), (Start: 13 @40830 has 24 MA's), (15, 40815), (17, 40806), (25, 40719),

Gene: Warrior24_75 Start: 41179, Stop: 40985, Start Num: 13
Candidate Starts for Warrior24_75:
(Start: 13 @41179 has 24 MA's), (15, 41164), (17, 41155), (27, 41056),

Gene: Yecey3_72 Start: 41315, Stop: 41127, Start Num: 11
Candidate Starts for Yecey3_72:
(Start: 11 @41315 has 15 MA's), (17, 41282),