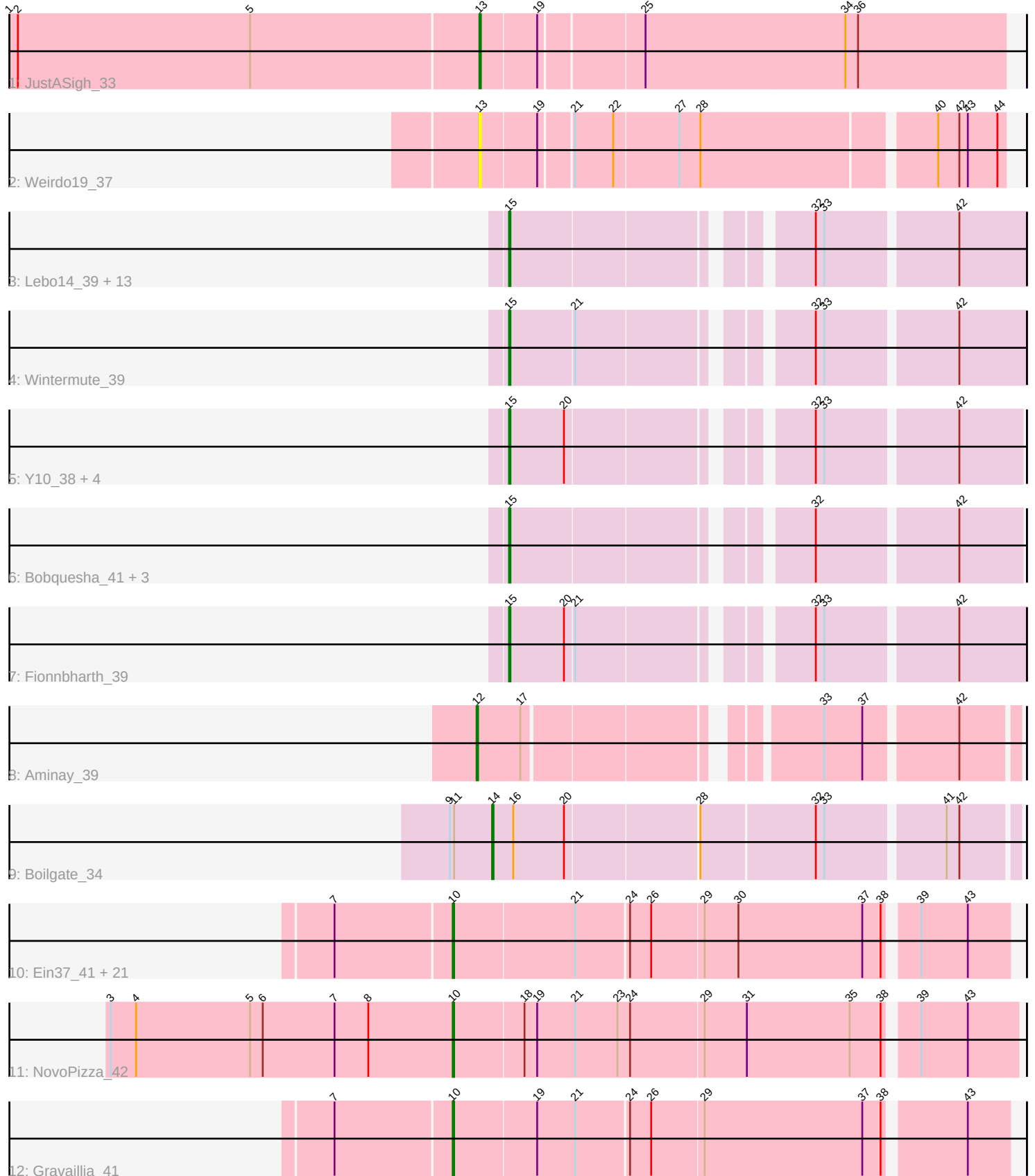


Pham 330922



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 330922 Report

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

Pham number 330922 has 53 members, 4 are drafts.

Phages represented in each track:

- Track 1 : JustASigh_33
- Track 2 : Weirido19_37
- Track 3 : Lebo14_39, Malthus_40, Cheetobro_39, Taquito_39, Qhanda_40, DanSyl44_42, Eponine_41, YasnayaPolyana_39, Slarp_39, Kraw_39, Mitti_39, Chancellor_39, OmniCritical_38, SamScheppers_38
- Track 4 : Wintermute_39
- Track 5 : Y10_38, Juliette_41, JF1_39, Ruthiejr_40, Y2_38
- Track 6 : Bobquesha_41, Patt_38, Reptar3000_39, MissDaisy_38
- Track 7 : Fionnbharth_39
- Track 8 : Aminay_39
- Track 9 : Boilgate_34
- Track 10 : Ein37_41, OBUpride_41, Amymech_41, Forge_40, HH92_40, Dewey_40, Amochick_41, Luke_41, Daegal_43, DeepSoil15_41, Kinbote_41, Luna22_40, Ubuntu_41, Hail_40, LilHazelNut_41, Hadrien_41, BloominB_40, Wishmaker_40, Gancho_40, Giles_40, Webster2_41, Evanesce_40
- Track 11 : NovoPizza_42
- Track 12 : Gravaillia_41

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

The start number called the most often in the published annotations is 10, it was called in 24 of the 49 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Amochick_41, Amymech_41, BloominB_40, Daegal_43, DeepSoil15_41, Dewey_40, Ein37_41, Evanesce_40, Forge_40, Gancho_40, Giles_40, Gravaillia_41, HH92_40, Hadrien_41, Hail_40, Kinbote_41, LilHazelNut_41, Luke_41, Luna22_40, NovoPizza_42, OBUpride_41, Ubuntu_41, Webster2_41, Wishmaker_40,

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

-

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

- Aminay_39, Bobquesha_41, Boilgate_34, Chancellor_39, Cheetobro_39, DanSyl44_42, Eponine_41, Fionnbharth_39, JF1_39, Juliette_41, JustASigh_33, Kraw_39, Lebo14_39, Malthus_40, MissDaisy_38, Mitti_39, OmniCritical_38, Patt_38, Qhanda_40, Reptar3000_39, Ruthiejr_40, SamScheppers_38, Slarp_39, Taquito_39, Weirdo19_37, Wintermute_39, Y10_38, Y2_38, YasnayaPolyana_39,

Summary by start number:

Start 10:

- Found in 24 of 53 (45.3%) of genes in pham
- Manual Annotations of this start: 24 of 49
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Amochick_41 (Q), Amymech_41 (Q), BloominB_40 (Q), Daegal_43 (Q), DeepSoil15_41 (Q), Dewey_40 (Q), Ein37_41 (Q), Evanesce_40 (Q), Forge_40 (Q), Gancho_40 (Q), Giles_40 (Q), Gravaillia_41 (Q), HH92_40 (Q), Hadrien_41 (Q), Hail_40 (Q), Kinbote_41 (Q), LilHazelNut_41 (Q), Luke_41 (Q), Luna22_40 (Q), NovoPizza_42 (Q), OBUpide_41 (Q), Ubuntu_41 (Q), Webster2_41 (Q), Wishmaker_40 (Q),

Start 12:

- Found in 1 of 53 (1.9%) of genes in pham
- Manual Annotations of this start: 1 of 49
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Aminay_39 (K7),

Start 13:

- Found in 2 of 53 (3.8%) of genes in pham
- Manual Annotations of this start: 1 of 49
- Called 100.0% of time when present
- Phage (with cluster) where this start called: JustASigh_33 (AH), Weirdo19_37 (AH),

Start 14:

- Found in 1 of 53 (1.9%) of genes in pham
- Manual Annotations of this start: 1 of 49
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Boilgate_34 (K8),

Start 15:

- Found in 25 of 53 (47.2%) of genes in pham
- Manual Annotations of this start: 22 of 49
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Bobquesha_41 (K4), Chancellor_39 (K4), Cheetobro_39 (K4), DanSyl44_42 (K4), Eponine_41 (K4), Fionnbharth_39 (K4), JF1_39 (K4), Juliette_41 (K4), Kraw_39 (K4), Lebo14_39 (K4), Malthus_40 (K4), MissDaisy_38 (K4), Mitti_39 (K4), OmniCritical_38 (K4), Patt_38 (K4), Qhanda_40 (K4), Reptar3000_39 (K4), Ruthiejr_40 (K4), SamScheppers_38 (K4), Slarp_39 (K4), Taquito_39 (K4), Wintermute_39 (K4), Y10_38 (K4), Y2_38 (K4), YasnayaPolyana_39 (K4),

Summary by clusters:

There are 5 clusters represented in this pham: Q, AH, K8, K7, K4,

Info for manual annotations of cluster AH:

- Start number 13 was manually annotated 1 time for cluster AH.

Info for manual annotations of cluster K4:

- Start number 15 was manually annotated 22 times for cluster K4.

Info for manual annotations of cluster K7:

- Start number 12 was manually annotated 1 time for cluster K7.

Info for manual annotations of cluster K8:

- Start number 14 was manually annotated 1 time for cluster K8.

Info for manual annotations of cluster Q:

- Start number 10 was manually annotated 24 times for cluster Q.

Gene Information:

Gene: Aminay_39 Start: 31728, Stop: 32063, Start Num: 12

Candidate Starts for Aminay_39:

(Start: 12 @31728 has 1 MA's), (17, 31758), (33, 31938), (37, 31965), (42, 32025),

Gene: Amochick_41 Start: 32713, Stop: 32339, Start Num: 10

Candidate Starts for Amochick_41:

(7, 32794), (Start: 10 @32713 has 24 MA's), (21, 32629), (24, 32593), (26, 32578), (29, 32542), (30, 32518), (37, 32431), (38, 32419), (39, 32401), (43, 32368),

Gene: Amymech_41 Start: 32707, Stop: 32333, Start Num: 10

Candidate Starts for Amymech_41:

(7, 32788), (Start: 10 @32707 has 24 MA's), (21, 32623), (24, 32587), (26, 32572), (29, 32536), (30, 32512), (37, 32425), (38, 32413), (39, 32395), (43, 32362),

Gene: BloominB_40 Start: 32707, Stop: 32333, Start Num: 10

Candidate Starts for BloominB_40:

(7, 32788), (Start: 10 @32707 has 24 MA's), (21, 32623), (24, 32587), (26, 32572), (29, 32536), (30, 32512), (37, 32425), (38, 32413), (39, 32395), (43, 32362),

Gene: Bobquesha_41 Start: 30808, Stop: 31131, Start Num: 15

Candidate Starts for Bobquesha_41:

(Start: 15 @30808 has 22 MA's), (32, 30994), (42, 31087),

Gene: Boilgate_34 Start: 31799, Stop: 32149, Start Num: 14

Candidate Starts for Boilgate_34:

(9, 31769), (11, 31772), (Start: 14 @31799 has 1 MA's), (16, 31814), (20, 31850), (28, 31940), (32, 32018), (33, 32024), (41, 32102), (42, 32111),

Gene: Chancellor_39 Start: 31069, Stop: 31395, Start Num: 15

Candidate Starts for Chancellor_39:

(Start: 15 @31069 has 22 MA's), (32, 31255), (33, 31261), (42, 31348),

Gene: Cheetobro_39 Start: 31066, Stop: 31392, Start Num: 15

Candidate Starts for Cheetobro_39:

(Start: 15 @31066 has 22 MA's), (32, 31252), (33, 31258), (42, 31345),

Gene: Daegal_43 Start: 33288, Stop: 32914, Start Num: 10

Candidate Starts for Daegal_43:

(7, 33369), (Start: 10 @33288 has 24 MA's), (21, 33204), (24, 33168), (26, 33153), (29, 33117), (30, 33093), (37, 33006), (38, 32994), (39, 32976), (43, 32943),

Gene: DanSyl44_42 Start: 31935, Stop: 32261, Start Num: 15

Candidate Starts for DanSyl44_42:

(Start: 15 @31935 has 22 MA's), (32, 32121), (33, 32127), (42, 32214),

Gene: DeepSoil15_41 Start: 32707, Stop: 32333, Start Num: 10

Candidate Starts for DeepSoil15_41:

(7, 32788), (Start: 10 @32707 has 24 MA's), (21, 32623), (24, 32587), (26, 32572), (29, 32536), (30, 32512), (37, 32425), (38, 32413), (39, 32395), (43, 32362),

Gene: Dewey_40 Start: 32707, Stop: 32333, Start Num: 10

Candidate Starts for Dewey_40:

(7, 32788), (Start: 10 @32707 has 24 MA's), (21, 32623), (24, 32587), (26, 32572), (29, 32536), (30, 32512), (37, 32425), (38, 32413), (39, 32395), (43, 32362),

Gene: Ein37_41 Start: 32707, Stop: 32333, Start Num: 10

Candidate Starts for Ein37_41:

(7, 32788), (Start: 10 @32707 has 24 MA's), (21, 32623), (24, 32587), (26, 32572), (29, 32536), (30, 32512), (37, 32425), (38, 32413), (39, 32395), (43, 32362),

Gene: Eponine_41 Start: 31822, Stop: 32148, Start Num: 15

Candidate Starts for Eponine_41:

(Start: 15 @31822 has 22 MA's), (32, 32008), (33, 32014), (42, 32101),

Gene: Evanesce_40 Start: 32707, Stop: 32333, Start Num: 10

Candidate Starts for Evanesce_40:

(7, 32788), (Start: 10 @32707 has 24 MA's), (21, 32623), (24, 32587), (26, 32572), (29, 32536), (30, 32512), (37, 32425), (38, 32413), (39, 32395), (43, 32362),

Gene: Fionnbharth_39 Start: 31057, Stop: 31383, Start Num: 15

Candidate Starts for Fionnbharth_39:

(Start: 15 @31057 has 22 MA's), (20, 31096), (21, 31102), (32, 31243), (33, 31249), (42, 31336),

Gene: Forge_40 Start: 32707, Stop: 32333, Start Num: 10

Candidate Starts for Forge_40:

(7, 32788), (Start: 10 @32707 has 24 MA's), (21, 32623), (24, 32587), (26, 32572), (29, 32536), (30, 32512), (37, 32425), (38, 32413), (39, 32395), (43, 32362),

Gene: Gancho_40 Start: 32430, Stop: 32056, Start Num: 10

Candidate Starts for Gancho_40:

(7, 32511), (Start: 10 @32430 has 24 MA's), (21, 32346), (24, 32310), (26, 32295), (29, 32259), (30, 32235), (37, 32148), (38, 32136), (39, 32118), (43, 32085),

Gene: Giles_40 Start: 32707, Stop: 32333, Start Num: 10

Candidate Starts for Giles_40:

(7, 32788), (Start: 10 @32707 has 24 MA's), (21, 32623), (24, 32587), (26, 32572), (29, 32536), (30, 32512), (37, 32425), (38, 32413), (39, 32395), (43, 32362),

Gene: Gravaillia_41 Start: 32750, Stop: 32376, Start Num: 10

Candidate Starts for Gravaillia_41:

(7, 32831), (Start: 10 @32750 has 24 MA's), (19, 32693), (21, 32666), (24, 32630), (26, 32615), (29, 32579), (37, 32468), (38, 32456), (43, 32405),

Gene: HH92_40 Start: 32707, Stop: 32333, Start Num: 10

Candidate Starts for HH92_40:

(7, 32788), (Start: 10 @32707 has 24 MA's), (21, 32623), (24, 32587), (26, 32572), (29, 32536), (30, 32512), (37, 32425), (38, 32413), (39, 32395), (43, 32362),

Gene: Hadrien_41 Start: 32707, Stop: 32333, Start Num: 10

Candidate Starts for Hadrien_41:

(7, 32788), (Start: 10 @32707 has 24 MA's), (21, 32623), (24, 32587), (26, 32572), (29, 32536), (30, 32512), (37, 32425), (38, 32413), (39, 32395), (43, 32362),

Gene: Hail_40 Start: 32707, Stop: 32333, Start Num: 10

Candidate Starts for Hail_40:

(7, 32788), (Start: 10 @32707 has 24 MA's), (21, 32623), (24, 32587), (26, 32572), (29, 32536), (30, 32512), (37, 32425), (38, 32413), (39, 32395), (43, 32362),

Gene: JF1_39 Start: 31056, Stop: 31379, Start Num: 15

Candidate Starts for JF1_39:

(Start: 15 @31056 has 22 MA's), (20, 31095), (32, 31242), (33, 31248), (42, 31335),

Gene: Juliette_41 Start: 31215, Stop: 31538, Start Num: 15

Candidate Starts for Juliette_41:

(Start: 15 @31215 has 22 MA's), (20, 31254), (32, 31401), (33, 31407), (42, 31494),

Gene: JustASigh_33 Start: 29929, Stop: 29567, Start Num: 13

Candidate Starts for JustASigh_33:

(1, 30259), (2, 30253), (5, 30088), (Start: 13 @29929 has 1 MA's), (19, 29890), (25, 29821), (34, 29680), (36, 29671),

Gene: Kinbote_41 Start: 32707, Stop: 32333, Start Num: 10

Candidate Starts for Kinbote_41:

(7, 32788), (Start: 10 @32707 has 24 MA's), (21, 32623), (24, 32587), (26, 32572), (29, 32536), (30, 32512), (37, 32425), (38, 32413), (39, 32395), (43, 32362),

Gene: Kraw_39 Start: 30981, Stop: 31307, Start Num: 15

Candidate Starts for Kraw_39:

(Start: 15 @30981 has 22 MA's), (32, 31167), (33, 31173), (42, 31260),

Gene: Lebo14_39 Start: 31070, Stop: 31396, Start Num: 15

Candidate Starts for Lebo14_39:

(Start: 15 @31070 has 22 MA's), (32, 31256), (33, 31262), (42, 31349),

Gene: LilHazelNut_41 Start: 32707, Stop: 32333, Start Num: 10

Candidate Starts for LilHazelNut_41:

(7, 32788), (Start: 10 @32707 has 24 MA's), (21, 32623), (24, 32587), (26, 32572), (29, 32536), (30, 32512), (37, 32425), (38, 32413), (39, 32395), (43, 32362),

Gene: Luke_41 Start: 32662, Stop: 32288, Start Num: 10

Candidate Starts for Luke_41:

(7, 32743), (Start: 10 @32662 has 24 MA's), (21, 32578), (24, 32542), (26, 32527), (29, 32491), (30, 32467), (37, 32380), (38, 32368), (39, 32350), (43, 32317),

Gene: Luna22_40 Start: 32707, Stop: 32333, Start Num: 10

Candidate Starts for Luna22_40:

(7, 32788), (Start: 10 @32707 has 24 MA's), (21, 32623), (24, 32587), (26, 32572), (29, 32536), (30, 32512), (37, 32425), (38, 32413), (39, 32395), (43, 32362),

Gene: Malthus_40 Start: 30981, Stop: 31307, Start Num: 15

Candidate Starts for Malthus_40:

(Start: 15 @30981 has 22 MA's), (32, 31167), (33, 31173), (42, 31260),

Gene: MissDaisy_38 Start: 30823, Stop: 31146, Start Num: 15

Candidate Starts for MissDaisy_38:

(Start: 15 @30823 has 22 MA's), (32, 31009), (42, 31102),

Gene: Mitti_39 Start: 30982, Stop: 31308, Start Num: 15

Candidate Starts for Mitti_39:

(Start: 15 @30982 has 22 MA's), (32, 31168), (33, 31174), (42, 31261),

Gene: NovoPizza_42 Start: 34391, Stop: 34008, Start Num: 10

Candidate Starts for NovoPizza_42:

(3, 34634), (4, 34616), (5, 34535), (6, 34526), (7, 34475), (8, 34451), (Start: 10 @34391 has 24 MA's), (18, 34343), (19, 34334), (21, 34307), (23, 34277), (24, 34268), (29, 34217), (31, 34187), (35, 34115), (38, 34094), (39, 34076), (43, 34043),

Gene: OBUpride_41 Start: 32701, Stop: 32327, Start Num: 10

Candidate Starts for OBUpride_41:

(7, 32782), (Start: 10 @32701 has 24 MA's), (21, 32617), (24, 32581), (26, 32566), (29, 32530), (30, 32506), (37, 32419), (38, 32407), (39, 32389), (43, 32356),

Gene: OmniCritical_38 Start: 30966, Stop: 31292, Start Num: 15

Candidate Starts for OmniCritical_38:

(Start: 15 @30966 has 22 MA's), (32, 31152), (33, 31158), (42, 31245),

Gene: Patt_38 Start: 30799, Stop: 31122, Start Num: 15

Candidate Starts for Patt_38:

(Start: 15 @30799 has 22 MA's), (32, 30985), (42, 31078),

Gene: Qhanda_40 Start: 31078, Stop: 31404, Start Num: 15

Candidate Starts for Qhanda_40:

(Start: 15 @31078 has 22 MA's), (32, 31264), (33, 31270), (42, 31357),

Gene: Reptar3000_39 Start: 30790, Stop: 31113, Start Num: 15

Candidate Starts for Reptar3000_39:

(Start: 15 @30790 has 22 MA's), (32, 30976), (42, 31069),

Gene: Ruthiejr_40 Start: 30947, Stop: 31270, Start Num: 15

Candidate Starts for Ruthiejr_40:

(Start: 15 @30947 has 22 MA's), (20, 30986), (32, 31133), (33, 31139), (42, 31226),

Gene: SamScheppers_38 Start: 31460, Stop: 31786, Start Num: 15

Candidate Starts for SamScheppers_38:

(Start: 15 @31460 has 22 MA's), (32, 31646), (33, 31652), (42, 31739),

Gene: Slarp_39 Start: 31069, Stop: 31395, Start Num: 15

Candidate Starts for Slarp_39:

(Start: 15 @31069 has 22 MA's), (32, 31255), (33, 31261), (42, 31348),

Gene: Taquito_39 Start: 31455, Stop: 31781, Start Num: 15

Candidate Starts for Taquito_39:

(Start: 15 @31455 has 22 MA's), (32, 31641), (33, 31647), (42, 31734),

Gene: Ubuntu_41 Start: 32707, Stop: 32333, Start Num: 10

Candidate Starts for Ubuntu_41:

(7, 32788), (Start: 10 @32707 has 24 MA's), (21, 32623), (24, 32587), (26, 32572), (29, 32536), (30, 32512), (37, 32425), (38, 32413), (39, 32395), (43, 32362),

Gene: Webster2_41 Start: 32707, Stop: 32333, Start Num: 10

Candidate Starts for Webster2_41:

(7, 32788), (Start: 10 @32707 has 24 MA's), (21, 32623), (24, 32587), (26, 32572), (29, 32536), (30, 32512), (37, 32425), (38, 32413), (39, 32395), (43, 32362),

Gene: Weirido19_37 Start: 30582, Stop: 30232, Start Num: 13

Candidate Starts for Weirido19_37:

(Start: 13 @30582 has 1 MA's), (19, 30543), (21, 30522), (22, 30495), (27, 30450), (28, 30435), (40, 30279), (42, 30264), (43, 30258), (44, 30237),

Gene: Wintermute_39 Start: 31055, Stop: 31381, Start Num: 15

Candidate Starts for Wintermute_39:

(Start: 15 @31055 has 22 MA's), (21, 31100), (32, 31241), (33, 31247), (42, 31334),

Gene: Wishmaker_40 Start: 32707, Stop: 32333, Start Num: 10

Candidate Starts for Wishmaker_40:

(7, 32788), (Start: 10 @32707 has 24 MA's), (21, 32623), (24, 32587), (26, 32572), (29, 32536), (30, 32512), (37, 32425), (38, 32413), (39, 32395), (43, 32362),

Gene: Y10_38 Start: 31056, Stop: 31379, Start Num: 15

Candidate Starts for Y10_38:

(Start: 15 @31056 has 22 MA's), (20, 31095), (32, 31242), (33, 31248), (42, 31335),

Gene: Y2_38 Start: 31056, Stop: 31379, Start Num: 15

Candidate Starts for Y2_38:

(Start: 15 @31056 has 22 MA's), (20, 31095), (32, 31242), (33, 31248), (42, 31335),

Gene: YasnayaPolyana_39 Start: 31057, Stop: 31383, Start Num: 15

Candidate Starts for YasnayaPolyana_39:

(Start: 15 @31057 has 22 MA's), (32, 31243), (33, 31249), (42, 31336),