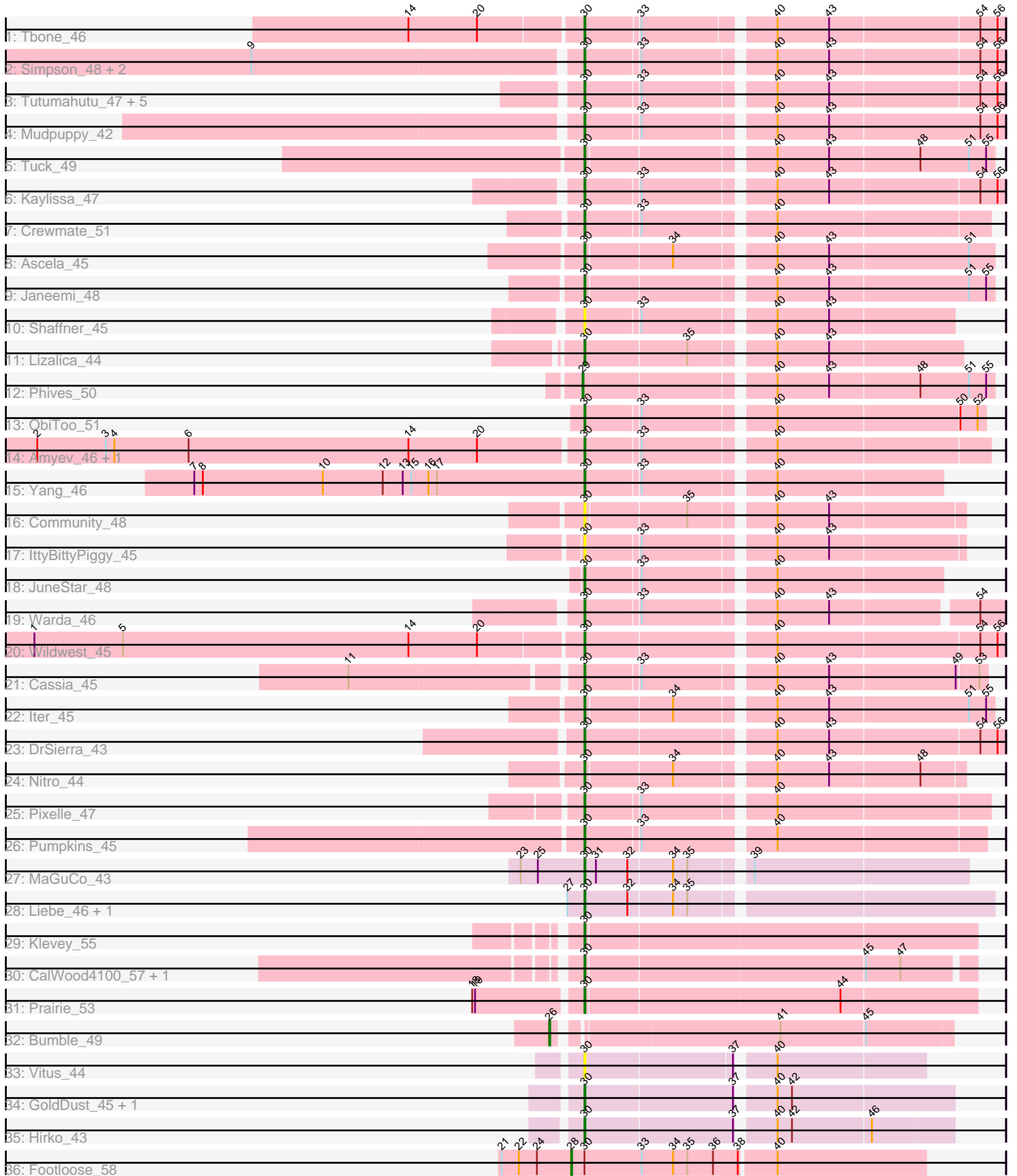


Pham 203045



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 203045 Report

This analysis was run 01/18/25 on database version 583.

Pham number 203045 has 47 members, 9 are drafts.

Phages represented in each track:

- Track 1 : Tbone_46
- Track 2 : Simpson_48, Joemato_46, JohnDoe_46
- Track 3 : Tutumahutu_47, AGrandiflora_48, Powerpuff_48, Lego_45, YesChef_46, Cyan_46
- Track 4 : Mudpuppy_42
- Track 5 : Tuck_49
- Track 6 : Kaylissa_47
- Track 7 : Crewmate_51
- Track 8 : Ascela_45
- Track 9 : Janeemi_48
- Track 10 : Shaffner_45
- Track 11 : Lizalica_44
- Track 12 : Phives_50
- Track 13 : ObiToo_51
- Track 14 : Amyev_46, Tian_45
- Track 15 : Yang_46
- Track 16 : Community_48
- Track 17 : IttyBittyPiggy_45
- Track 18 : JuneStar_48
- Track 19 : Warda_46
- Track 20 : Wildwest_45
- Track 21 : Cassia_45
- Track 22 : Iter_45
- Track 23 : DrSierra_43
- Track 24 : Nitro_44
- Track 25 : Pixelle_47
- Track 26 : Pumpkins_45
- Track 27 : MaGuCo_43
- Track 28 : Liebe_46, Maureen_46
- Track 29 : Klevey_55
- Track 30 : CalWood4100_57, Lilmac1015_57
- Track 31 : Prairie_53
- Track 32 : Bumble_49
- Track 33 : Vitus_44
- Track 34 : GoldDust_45, Vibaki_44
- Track 35 : Hirko_43
- Track 36 : Footloose_58

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

The start number called the most often in the published annotations is 30, it was called in 35 of the 38 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- AGrandiflora_48, Amyev_46, Ascela_45, CalWood4100_57, Cassia_45, Community_48, Crewmate_51, Cyan_46, DrSierra_43, GoldDust_45, Hirko_43, Iter_45, IttyBittyPiggy_45, Janeemi_48, Joemato_46, JohnDoe_46, JuneStar_48, Kaylissa_47, Klevey_55, Lego_45, Liebe_46, Lilmac1015_57, Lizalica_44, MaGuCo_43, Maureen_46, Mudpuppy_42, Nitro_44, ObiToo_51, Pixelle_47, Powerpuff_48, Prairie_53, Pumpkins_45, Shaffner_45, Simpson_48, Tbone_46, Tian_45, Tuck_49, Tutumahutu_47, Vibaki_44, Vitus_44, Warda_46, Wildwest_45, Yang_46, YesChef_46,

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

- Footloose_58,

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

- Bumble_49, Phives_50,

Summary by start number:

Start 26:

- Found in 1 of 47 (2.1%) of genes in pham
- Manual Annotations of this start: 1 of 38
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Bumble_49 (FH),

Start 28:

- Found in 1 of 47 (2.1%) of genes in pham
- Manual Annotations of this start: 1 of 38
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Footloose_58 (singleton),

Start 29:

- Found in 1 of 47 (2.1%) of genes in pham
- Manual Annotations of this start: 1 of 38
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Phives_50 (AZ1),

Start 30:

- Found in 45 of 47 (95.7%) of genes in pham
- Manual Annotations of this start: 35 of 38
- Called 97.8% of time when present
- Phage (with cluster) where this start called: AGrandiflora_48 (AZ1), Amyev_46 (AZ1), Ascela_45 (AZ1), CalWood4100_57 (FH), Cassia_45 (AZ1), Community_48 (AZ1), Crewmate_51 (AZ1), Cyan_46 (AZ1), DrSierra_43 (AZ1), GoldDust_45 (FL), Hirko_43 (FL), Iter_45 (AZ1), IttyBittyPiggy_45 (AZ1), Janeemi_48 (AZ1),

Joemato_46 (AZ1), JohnDoe_46 (AZ1), JuneStar_48 (AZ1), Kaylissa_47 (AZ1), Klevey_55 (FH), Lego_45 (AZ1), Liebe_46 (AZ2), Lilmac1015_57 (FH), Lizalica_44 (AZ1), MaGuCo_43 (AZ2), Maureen_46 (AZ2), Mudpuppy_42 (AZ1), Nitro_44 (AZ1), ObiToo_51 (AZ1), Pixelle_47 (AZ1), Powerpuff_48 (AZ1), Prairie_53 (FH), Pumpkins_45 (AZ1), Shaffner_45 (AZ1), Simpson_48 (AZ1), Tbone_46 (AZ1), Tian_45 (AZ1), Tuck_49 (AZ1), Tutumahutu_47 (AZ1), Vibaki_44 (FL), Vitus_44 (FL), Warda_46 (AZ1), Wildwest_45 (AZ1), Yang_46 (AZ1), YesChef_46 (AZ1),

Summary by clusters:

There are 5 clusters represented in this pham: FH, AZ1, AZ2, FL, singleton,

Info for manual annotations of cluster AZ1:

- Start number 29 was manually annotated 1 time for cluster AZ1.
- Start number 30 was manually annotated 27 times for cluster AZ1.

Info for manual annotations of cluster AZ2:

- Start number 30 was manually annotated 3 times for cluster AZ2.

Info for manual annotations of cluster FH:

- Start number 26 was manually annotated 1 time for cluster FH.
- Start number 30 was manually annotated 3 times for cluster FH.

Info for manual annotations of cluster FL:

- Start number 30 was manually annotated 2 times for cluster FL.

Gene Information:

Gene: AGrandiflora_48 Start: 33790, Stop: 34203, Start Num: 30

Candidate Starts for AGrandiflora_48:

(Start: 30 @33790 has 35 MA's), (33, 33844), (40, 33970), (43, 34024), (54, 34177), (56, 34195),

Gene: Amyev_46 Start: 34828, Stop: 35223, Start Num: 30

Candidate Starts for Amyev_46:

(2, 34264), (3, 34336), (4, 34345), (6, 34423), (14, 34654), (20, 34726), (Start: 30 @34828 has 35 MA's), (33, 34882), (40, 35008),

Gene: Ascela_45 Start: 33111, Stop: 33515, Start Num: 30

Candidate Starts for Ascela_45:

(Start: 30 @33111 has 35 MA's), (34, 33198), (40, 33291), (43, 33345), (51, 33489),

Gene: Bumble_49 Start: 35709, Stop: 36101, Start Num: 26

Candidate Starts for Bumble_49:

(Start: 26 @35709 has 1 MA's), (41, 35925), (45, 36012),

Gene: CalWood4100_57 Start: 38014, Stop: 38406, Start Num: 30

Candidate Starts for CalWood4100_57:

(Start: 30 @38014 has 35 MA's), (45, 38299), (47, 38335),

Gene: Cassia_45 Start: 33045, Stop: 33434, Start Num: 30

Candidate Starts for Cassia_45:

(11, 32820), (Start: 30 @33045 has 35 MA's), (33, 33099), (40, 33225), (43, 33279), (49, 33408), (53, 33426),

Gene: Community_48 Start: 35107, Stop: 35478, Start Num: 30

Candidate Starts for Community_48:

(Start: 30 @35107 has 35 MA's), (35, 35209), (40, 35287), (43, 35341),

Gene: Crewmate_51 Start: 33740, Stop: 34135, Start Num: 30

Candidate Starts for Crewmate_51:

(Start: 30 @33740 has 35 MA's), (33, 33794), (40, 33920),

Gene: Cyan_46 Start: 33389, Stop: 33802, Start Num: 30

Candidate Starts for Cyan_46:

(Start: 30 @33389 has 35 MA's), (33, 33443), (40, 33569), (43, 33623), (54, 33776), (56, 33794),

Gene: DrSierra_43 Start: 31383, Stop: 31799, Start Num: 30

Candidate Starts for DrSierra_43:

(Start: 30 @31383 has 35 MA's), (40, 31566), (43, 31620), (54, 31773), (56, 31791),

Gene: Footloose_58 Start: 33452, Stop: 33814, Start Num: 28

Candidate Starts for Footloose_58:

(21, 33380), (22, 33398), (24, 33416), (Start: 28 @33452 has 1 MA's), (Start: 30 @33464 has 35 MA's), (33, 33524), (34, 33557), (35, 33572), (36, 33599), (38, 33623), (40, 33659),

Gene: GoldDust_45 Start: 35305, Stop: 35673, Start Num: 30

Candidate Starts for GoldDust_45:

(Start: 30 @35305 has 35 MA's), (37, 35458), (40, 35491), (42, 35506),

Gene: Hirko_43 Start: 34532, Stop: 34897, Start Num: 30

Candidate Starts for Hirko_43:

(Start: 30 @34532 has 35 MA's), (37, 34685), (40, 34718), (42, 34733), (46, 34814),

Gene: Iter_45 Start: 33105, Stop: 33509, Start Num: 30

Candidate Starts for Iter_45:

(Start: 30 @33105 has 35 MA's), (34, 33192), (40, 33285), (43, 33339), (51, 33483), (55, 33501),

Gene: IttyBittyPiggy_45 Start: 32844, Stop: 33215, Start Num: 30

Candidate Starts for IttyBittyPiggy_45:

(Start: 30 @32844 has 35 MA's), (33, 32898), (40, 33024), (43, 33078),

Gene: Janeemi_48 Start: 35112, Stop: 35516, Start Num: 30

Candidate Starts for Janeemi_48:

(Start: 30 @35112 has 35 MA's), (40, 35292), (43, 35346), (51, 35490), (55, 35508),

Gene: Joemato_46 Start: 33415, Stop: 33828, Start Num: 30

Candidate Starts for Joemato_46:

(9, 33085), (Start: 30 @33415 has 35 MA's), (33, 33469), (40, 33595), (43, 33649), (54, 33802), (56, 33820),

Gene: JohnDoe_46 Start: 33411, Stop: 33824, Start Num: 30

Candidate Starts for JohnDoe_46:

(9, 33081), (Start: 30 @33411 has 35 MA's), (33, 33465), (40, 33591), (43, 33645), (54, 33798), (56, 33816),

Gene: JuneStar_48 Start: 35661, Stop: 36011, Start Num: 30

Candidate Starts for JuneStar_48:

(Start: 30 @35661 has 35 MA's), (33, 35715), (40, 35841),

Gene: Kaylissa_47 Start: 33807, Stop: 34220, Start Num: 30

Candidate Starts for Kaylissa_47:

(Start: 30 @33807 has 35 MA's), (33, 33861), (40, 33987), (43, 34041), (54, 34194), (56, 34212),

Gene: Klevey_55 Start: 37550, Stop: 37951, Start Num: 30

Candidate Starts for Klevey_55:

(Start: 30 @37550 has 35 MA's),

Gene: Lego_45 Start: 33126, Stop: 33539, Start Num: 30

Candidate Starts for Lego_45:

(Start: 30 @33126 has 35 MA's), (33, 33180), (40, 33306), (43, 33360), (54, 33513), (56, 33531),

Gene: Liebe_46 Start: 34755, Stop: 35162, Start Num: 30

Candidate Starts for Liebe_46:

(27, 34737), (Start: 30 @34755 has 35 MA's), (32, 34800), (34, 34845), (35, 34860),

Gene: Lilmac1015_57 Start: 38014, Stop: 38406, Start Num: 30

Candidate Starts for Lilmac1015_57:

(Start: 30 @38014 has 35 MA's), (45, 38299), (47, 38335),

Gene: Lizalica_44 Start: 32567, Stop: 32941, Start Num: 30

Candidate Starts for Lizalica_44:

(Start: 30 @32567 has 35 MA's), (35, 32672), (40, 32750), (43, 32804),

Gene: MaGuCo_43 Start: 33237, Stop: 33617, Start Num: 30

Candidate Starts for MaGuCo_43:

(23, 33171), (25, 33189), (Start: 30 @33237 has 35 MA's), (31, 33249), (32, 33282), (34, 33327), (35, 33342), (39, 33396),

Gene: Maureen_46 Start: 34755, Stop: 35162, Start Num: 30

Candidate Starts for Maureen_46:

(27, 34737), (Start: 30 @34755 has 35 MA's), (32, 34800), (34, 34845), (35, 34860),

Gene: Mudpuppy_42 Start: 33064, Stop: 33480, Start Num: 30

Candidate Starts for Mudpuppy_42:

(Start: 30 @33064 has 35 MA's), (33, 33118), (40, 33244), (43, 33298), (54, 33454), (56, 33472),

Gene: Nitro_44 Start: 33699, Stop: 34070, Start Num: 30

Candidate Starts for Nitro_44:

(Start: 30 @33699 has 35 MA's), (34, 33786), (40, 33879), (43, 33933), (48, 34026),

Gene: ObiToo_51 Start: 34185, Stop: 34577, Start Num: 30

Candidate Starts for ObiToo_51:

(Start: 30 @34185 has 35 MA's), (33, 34239), (40, 34365), (50, 34551), (52, 34569),

Gene: Phives_50 Start: 35604, Stop: 36011, Start Num: 29

Candidate Starts for Phives_50:

(Start: 29 @35604 has 1 MA's), (40, 35787), (43, 35841), (48, 35934), (51, 35985), (55, 36003),

Gene: Pixelle_47 Start: 35172, Stop: 35567, Start Num: 30

Candidate Starts for Pixelle_47:

(Start: 30 @35172 has 35 MA's), (33, 35226), (40, 35352),

Gene: Powerpuff_48 Start: 34514, Stop: 34927, Start Num: 30

Candidate Starts for Powerpuff_48:

(Start: 30 @34514 has 35 MA's), (33, 34568), (40, 34694), (43, 34748), (54, 34901), (56, 34919),

Gene: Prairie_53 Start: 36909, Stop: 37310, Start Num: 30

Candidate Starts for Prairie_53:

(18, 36807), (19, 36810), (Start: 30 @36909 has 35 MA's), (44, 37170),

Gene: Pumpkins_45 Start: 33566, Stop: 33961, Start Num: 30

Candidate Starts for Pumpkins_45:

(Start: 30 @33566 has 35 MA's), (33, 33620), (40, 33749),

Gene: Shaffner_45 Start: 33571, Stop: 33933, Start Num: 30

Candidate Starts for Shaffner_45:

(Start: 30 @33571 has 35 MA's), (33, 33625), (40, 33751), (43, 33805),

Gene: Simpson_48 Start: 33419, Stop: 33832, Start Num: 30

Candidate Starts for Simpson_48:

(9, 33089), (Start: 30 @33419 has 35 MA's), (33, 33473), (40, 33599), (43, 33653), (54, 33806), (56, 33824),

Gene: Tbone_46 Start: 33975, Stop: 34388, Start Num: 30

Candidate Starts for Tbone_46:

(14, 33801), (20, 33873), (Start: 30 @33975 has 35 MA's), (33, 34029), (40, 34155), (43, 34209), (54, 34362), (56, 34380),

Gene: Tian_45 Start: 34828, Stop: 35223, Start Num: 30

Candidate Starts for Tian_45:

(2, 34264), (3, 34336), (4, 34345), (6, 34423), (14, 34654), (20, 34726), (Start: 30 @34828 has 35 MA's), (33, 34882), (40, 35008),

Gene: Tuck_49 Start: 35489, Stop: 35893, Start Num: 30

Candidate Starts for Tuck_49:

(Start: 30 @35489 has 35 MA's), (40, 35669), (43, 35723), (48, 35816), (51, 35867), (55, 35885),

Gene: Tutumahutu_47 Start: 33397, Stop: 33810, Start Num: 30

Candidate Starts for Tutumahutu_47:

(Start: 30 @33397 has 35 MA's), (33, 33451), (40, 33577), (43, 33631), (54, 33784), (56, 33802),

Gene: Vibaki_44 Start: 34927, Stop: 35295, Start Num: 30

Candidate Starts for Vibaki_44:

(Start: 30 @34927 has 35 MA's), (37, 35080), (40, 35113), (42, 35128),

Gene: Vitus_44 Start: 33911, Stop: 34246, Start Num: 30

Candidate Starts for Vitus_44:

(Start: 30 @33911 has 35 MA's), (37, 34061), (40, 34094),

Gene: Warda_46 Start: 33470, Stop: 33874, Start Num: 30

Candidate Starts for Warda_46:

(Start: 30 @33470 has 35 MA's), (33, 33524), (40, 33650), (43, 33704), (54, 33848),

Gene: Wildwest_45 Start: 33392, Stop: 33811, Start Num: 30

Candidate Starts for Wildwest_45:

(1, 32825), (5, 32918), (14, 33218), (20, 33290), (Start: 30 @33392 has 35 MA's), (40, 33578), (54, 33785), (56, 33803),

Gene: Yang_46 Start: 33276, Stop: 33626, Start Num: 30

Candidate Starts for Yang_46:

(7, 32868), (8, 32877), (10, 33003), (12, 33066), (13, 33087), (15, 33096), (16, 33114), (17, 33123), (Start: 30 @33276 has 35 MA's), (33, 33330), (40, 33456),

Gene: YesChef_46 Start: 33373, Stop: 33786, Start Num: 30

Candidate Starts for YesChef_46:

(Start: 30 @33373 has 35 MA's), (33, 33427), (40, 33553), (43, 33607), (54, 33760), (56, 33778),