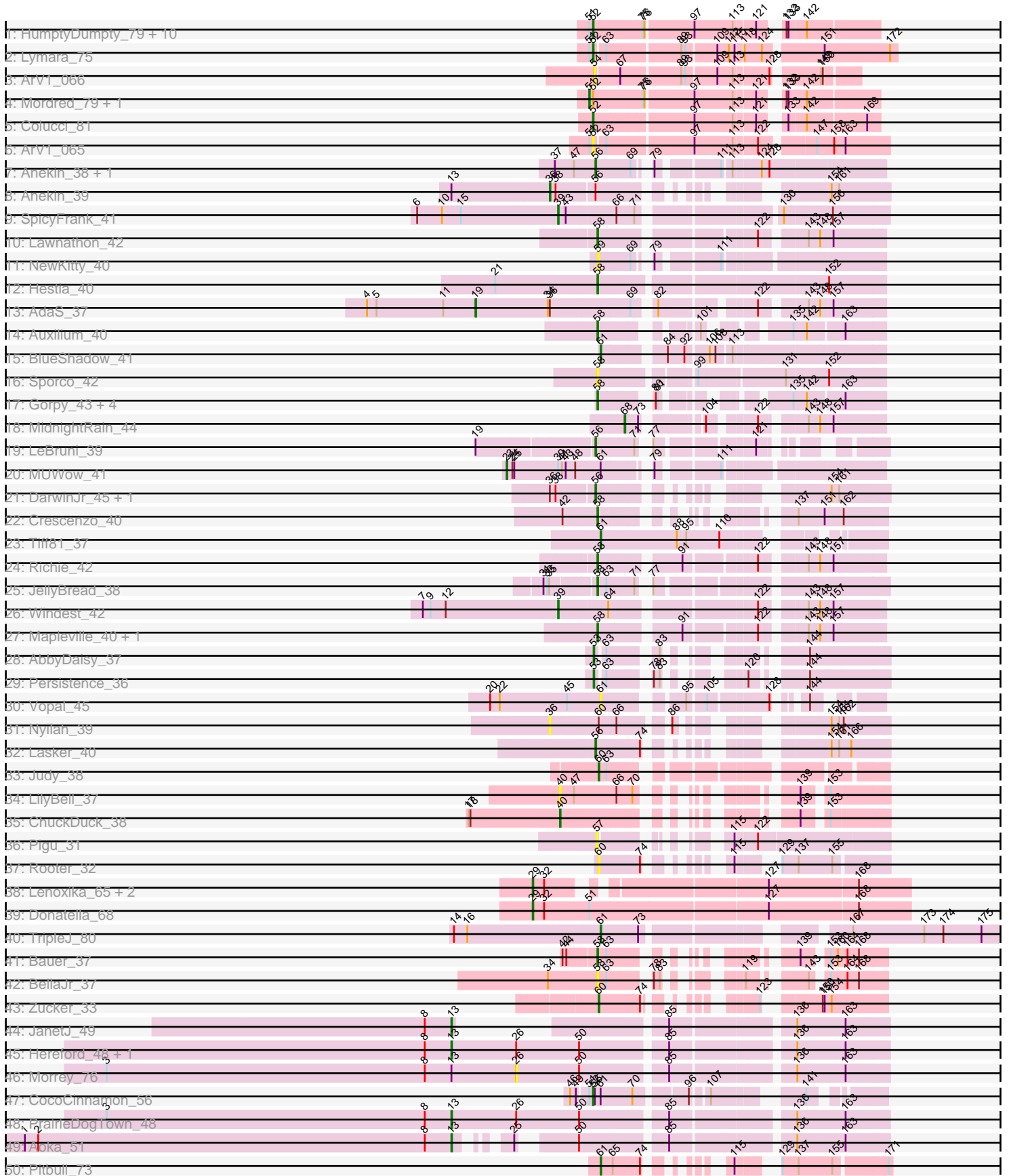
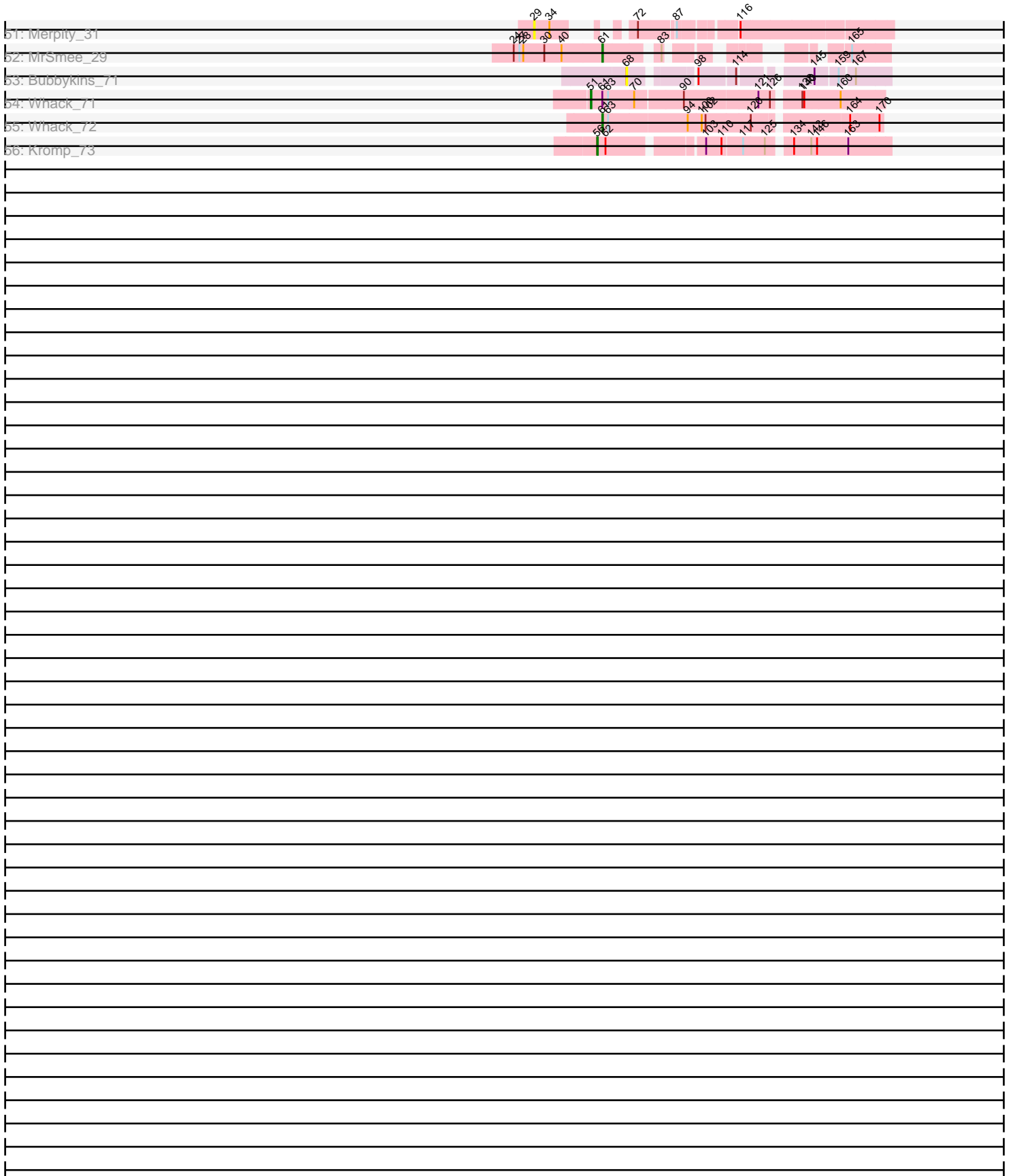


Pham 311521



Pham 311521



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 311521 Report

This analysis was run 06/27/26 on database version 652.

Pham number 311521 has 77 members, 16 are drafts.

Phages represented in each track:

- Track 1 : HumptyDumpty_79, Chocolat_79, RosiePosie_79, Linus_79, EdgarPoe_78, Scavito_80, Chipper1996_800, Chubster_80, Kabreeze_79, PrincessTrina_80, Tophat_80
- Track 2 : Lymara_75
- Track 3 : ArV1_066
- Track 4 : Mordred_79, JaNo_78
- Track 5 : Colucci_81
- Track 6 : ArV1_065
- Track 7 : Anekin_38, DarwinJr_44
- Track 8 : Anekin_39
- Track 9 : SpicyFrank_41
- Track 10 : Lawnathon_42
- Track 11 : NewKitty_40
- Track 12 : Hestia_40
- Track 13 : AdaS_37
- Track 14 : Auxilium_40
- Track 15 : BlueShadow_41
- Track 16 : Sporco_42
- Track 17 : Gorpy_43, YoungHarleezy_42, Aikyam_39, MaterMagnus_42, Sakai_42
- Track 18 : MidnightRain_44
- Track 19 : LeBruni_39
- Track 20 : MUWow_41
- Track 21 : DarwinJr_45, JakeTheSnake_44
- Track 22 : Crescenzo_40
- Track 23 : Tiff81_37
- Track 24 : Richie_42
- Track 25 : JellyBread_38
- Track 26 : Windest_42
- Track 27 : Mapleville_40, Isolde_43
- Track 28 : AbbyDaisy_37
- Track 29 : Persistence_36
- Track 30 : Vopal_45
- Track 31 : Nyilah_39
- Track 32 : Lasker_40
- Track 33 : Judy_38
- Track 34 : LilyBell_37
- Track 35 : ChuckDuck_38

- Track 36 : Pigu_31
- Track 37 : Rooter_32
- Track 38 : Lenoxika_65, AllBusiness_64, ToastyOats_69
- Track 39 : Donatella_68
- Track 40 : TripleJ_80
- Track 41 : Bauer_37
- Track 42 : BellaJr_37
- Track 43 : Zucker_33
- Track 44 : JanetJ_49
- Track 45 : Hereford_48, EvenBluerMoon_47
- Track 46 : Morrey_76
- Track 47 : CocoCinnamon_56
- Track 48 : PrairieDogTown_48
- Track 49 : Aoka_51
- Track 50 : Pitbull_73
- Track 51 : Merpity_31
- Track 52 : MrSmee_29
- Track 53 : Bubbykins_71
- Track 54 : Whack_71
- Track 55 : Whack_72
- Track 56 : Kromp_73

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

The start number called the most often in the published annotations is 52, it was called in 14 of the 61 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- ArV1_065, Chipper1996_800, Chocolat_79, Chubster_80, CocoCinnamon_56, Colucci_81, EdgarPoe_78, HumptyDumpty_79, Kabreeze_79, Linus_79, Lymara_75, PrincessTrina_80, RosiePosie_79, Scavito_80, Tophat_80,

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

- JaNo_78, Mordred_79,

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

- AbbyDaisy_37, AdaS_37, Aikyam_39, AllBusiness_64, Anekin_38, Anekin_39, Aoka_51, ArV1_066, Auxilium_40, Bauer_37, BellaJr_37, BlueShadow_41, Bubbykins_71, ChuckDuck_38, Crescenzo_40, DarwinJr_44, DarwinJr_45, Donatella_68, EvenBluerMoon_47, Gorpy_43, Hereford_48, Hestia_40, Isolde_43, JakeTheSnake_44, JanetJ_49, JellyBread_38, Judy_38, Kromp_73, Lasker_40, Lawnathon_42, LeBruni_39, Lenoxika_65, LilyBell_37, MUWow_41, Mapleville_40, MaterMagnus_42, Merpity_31, MidnightRain_44, Morrey_76, MrSmee_29, NewKitty_40, Nyilah_39, Persistence_36, Pigu_31, Pitbull_73, PrairieDogTown_48, Richie_42, Rooter_32, Sakai_42, SpicyFrank_41, Sporco_42, Tiff81_37, ToastyOats_69, TripleJ_80, Vopal_45, Whack_71, Whack_72, Windest_42, YoungHarleezy_42, Zucker_33,

Summary by start number:

Start 13:

- Found in 7 of 77 (9.1%) of genes in pham
- Manual Annotations of this start: 5 of 61
- Called 71.4% of time when present
- Phage (with cluster) where this start called: Aoka_51 (FO), EvenBluerMoon_47 (FO), Hereford_48 (FO), JanetJ_49 (FO), PrairieDogTown_48 (FO),

Start 19:

- Found in 2 of 77 (2.6%) of genes in pham
- Manual Annotations of this start: 1 of 61
- Called 50.0% of time when present
- Phage (with cluster) where this start called: AdaS_37 (AY),

Start 23:

- Found in 1 of 77 (1.3%) of genes in pham
- Manual Annotations of this start: 1 of 61
- Called 100.0% of time when present
- Phage (with cluster) where this start called: MUWow_41 (AY),

Start 26:

- Found in 4 of 77 (5.2%) of genes in pham
- No Manual Annotations of this start.
- Called 25.0% of time when present
- Phage (with cluster) where this start called: Morrey_76 (FO),

Start 29:

- Found in 5 of 77 (6.5%) of genes in pham
- Manual Annotations of this start: 3 of 61
- Called 100.0% of time when present
- Phage (with cluster) where this start called: AllBusiness_64 (FF), Donatella_68 (FF), Lenoxika_65 (FF), Merpity_31 (FQ1), ToastyOats_69 (FF),

Start 36:

- Found in 5 of 77 (6.5%) of genes in pham
- Manual Annotations of this start: 1 of 61
- Called 40.0% of time when present
- Phage (with cluster) where this start called: Anekin_39 (AY), Nyilah_39 (AY),

Start 39:

- Found in 3 of 77 (3.9%) of genes in pham
- Manual Annotations of this start: 2 of 61
- Called 66.7% of time when present
- Phage (with cluster) where this start called: SpicyFrank_41 (AY), Windest_42 (AY),

Start 40:

- Found in 3 of 77 (3.9%) of genes in pham
- Manual Annotations of this start: 1 of 61
- Called 66.7% of time when present
- Phage (with cluster) where this start called: ChuckDuck_38 (FA), LilyBell_37 (FA),

Start 51:

- Found in 18 of 77 (23.4%) of genes in pham
- Manual Annotations of this start: 3 of 61

- Called 16.7% of time when present
- Phage (with cluster) where this start called: JaNo_78 (AR), Mordred_79 (AR), Whack_71 (singleton),

Start 52:

- Found in 17 of 77 (22.1%) of genes in pham
- Manual Annotations of this start: 14 of 61
- Called 88.2% of time when present
- Phage (with cluster) where this start called: ArV1_065 (AR), Chipper1996_800 (AR), Chocolat_79 (AR), Chubster_80 (AR), CocoCinnamon_56 (FO), Colucci_81 (AR), EdgarPoe_78 (AR), HumptyDumpty_79 (AR), Kabreeze_79 (AR), Linus_79 (AR), Lymara_75 (AR), PrincessTrina_80 (AR), RosiePosie_79 (AR), Scavito_80 (AR), Tophat_80 (AR),

Start 53:

- Found in 2 of 77 (2.6%) of genes in pham
- Manual Annotations of this start: 2 of 61
- Called 100.0% of time when present
- Phage (with cluster) where this start called: AbbyDaisy_37 (AY), Persistence_36 (AY),

Start 54:

- Found in 1 of 77 (1.3%) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: ArV1_066 (AR),

Start 56:

- Found in 8 of 77 (10.4%) of genes in pham
- Manual Annotations of this start: 6 of 61
- Called 87.5% of time when present
- Phage (with cluster) where this start called: Anekin_38 (AY), DarwinJr_44 (AY), DarwinJr_45 (AY), JakeTheSnake_44 (AY), Kromp_73 (singleton), Lasker_40 (AY), LeBruni_39 (AY),

Start 57:

- Found in 1 of 77 (1.3%) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Pigu_31 (FB),

Start 58:

- Found in 16 of 77 (20.8%) of genes in pham
- Manual Annotations of this start: 13 of 61
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Aikyam_39 (AY), Auxilium_40 (AY), Bauer_37 (FN), BellaJr_37 (FN), Crescenzo_40 (AY), Gorpy_43 (AY), Hestia_40 (AY), Isolde_43 (AY), JellyBread_38 (AY), Lawnathon_42 (AY), Mapleville_40 (AY), MaterMagnus_42 (AY), Richie_42 (AY), Sakai_42 (AY), Sporco_42 (AY), YoungHarleezy_42 (AY),

Start 59:

- Found in 1 of 77 (1.3%) of genes in pham

- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: NewKitty_40 (AY),

Start 60:

- Found in 4 of 77 (5.2%) of genes in pham
- Manual Annotations of this start: 2 of 61
- Called 75.0% of time when present
- Phage (with cluster) where this start called: Judy_38 (FA), Rooter_32 (FB), Zucker_33 (FN),

Start 61:

- Found in 10 of 77 (13.0%) of genes in pham
- Manual Annotations of this start: 6 of 61
- Called 70.0% of time when present
- Phage (with cluster) where this start called: BlueShadow_41 (AY), MrSmee_29 (FQ1), Pitbull_73 (FQ1), Tiff81_37 (AY), TripleJ_80 (FJ), Vopal_45 (AY), Whack_72 (singleton),

Start 68:

- Found in 2 of 77 (2.6%) of genes in pham
- Manual Annotations of this start: 1 of 61
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Bubbykins_71 (UNK), MidnightRain_44 (AY),

Summary by clusters:

There are 11 clusters represented in this pham: singleton, UNK, FA, FB, AR, FF, AY, FJ, FQ1, FN, FO,

Info for manual annotations of cluster AR:

- Start number 51 was manually annotated 2 times for cluster AR.
- Start number 52 was manually annotated 13 times for cluster AR.

Info for manual annotations of cluster AY:

- Start number 19 was manually annotated 1 time for cluster AY.
- Start number 23 was manually annotated 1 time for cluster AY.
- Start number 36 was manually annotated 1 time for cluster AY.
- Start number 39 was manually annotated 2 times for cluster AY.
- Start number 53 was manually annotated 2 times for cluster AY.
- Start number 56 was manually annotated 5 times for cluster AY.
- Start number 58 was manually annotated 12 times for cluster AY.
- Start number 61 was manually annotated 2 times for cluster AY.
- Start number 68 was manually annotated 1 time for cluster AY.

Info for manual annotations of cluster FA:

- Start number 40 was manually annotated 1 time for cluster FA.
- Start number 60 was manually annotated 1 time for cluster FA.

Info for manual annotations of cluster FF:

- Start number 29 was manually annotated 3 times for cluster FF.

Info for manual annotations of cluster FJ:

- Start number 61 was manually annotated 1 time for cluster FJ.

Info for manual annotations of cluster FN:

- Start number 58 was manually annotated 1 time for cluster FN.
- Start number 60 was manually annotated 1 time for cluster FN.

Info for manual annotations of cluster FO:

- Start number 13 was manually annotated 5 times for cluster FO.
- Start number 52 was manually annotated 1 time for cluster FO.

Info for manual annotations of cluster FQ1:

- Start number 61 was manually annotated 2 times for cluster FQ1.

Gene Information:

Gene: AbbyDaisy_37 Start: 27733, Stop: 27410, Start Num: 53

Candidate Starts for AbbyDaisy_37:

(Start: 53 @27733 has 2 MA's), (63, 27721), (83, 27661), (144, 27529),

Gene: AdaS_37 Start: 26390, Stop: 25854, Start Num: 19

Candidate Starts for AdaS_37:

(4, 26561), (5, 26546), (11, 26441), (Start: 19 @26390 has 1 MA's), (34, 26276), (Start: 36 @26273 has 1 MA's), (69, 26153), (82, 26132), (122, 26018), (143, 25967), (148, 25949), (157, 25931),

Gene: Aikyam_39 Start: 26132, Stop: 25803, Start Num: 58

Candidate Starts for Aikyam_39:

(Start: 58 @26132 has 13 MA's), (80, 26069), (81, 26066), (135, 25937), (142, 25916), (163, 25865),

Gene: AllBusiness_64 Start: 42408, Stop: 42935, Start Num: 29

Candidate Starts for AllBusiness_64:

(Start: 29 @42408 has 3 MA's), (32, 42426), (127, 42717), (168, 42855),

Gene: Anekin_38 Start: 27545, Stop: 27171, Start Num: 56

Candidate Starts for Anekin_38:

(37, 27608), (47, 27578), (Start: 56 @27545 has 6 MA's), (69, 27494), (79, 27482), (111, 27407), (113, 27395), (124, 27356), (128, 27344),

Gene: Anekin_39 Start: 27918, Stop: 27538, Start Num: 36

Candidate Starts for Anekin_39:

(Start: 13 @28068 has 5 MA's), (Start: 36 @27918 has 1 MA's), (38, 27909), (Start: 56 @27852 has 6 MA's), (154, 27627), (161, 27615),

Gene: Aoka_51 Start: 34831, Stop: 35385, Start Num: 13

Candidate Starts for Aoka_51:

(1, 34159), (2, 34180), (8, 34789), (Start: 13 @34831 has 5 MA's), (25, 34879), (50, 34945), (85, 35068), (136, 35242), (163, 35317),

Gene: ArV1_066 Start: 50683, Stop: 51042, Start Num: 54

Candidate Starts for ArV1_066:

(54, 50683), (67, 50716), (89, 50803), (93, 50809), (109, 50854), (113, 50878), (128, 50929), (149, 50989), (150, 50992),

Gene: ArV1_065 Start: 50268, Stop: 50690, Start Num: 52

Candidate Starts for ArV1_065:

(Start: 51 @50262 has 3 MA's), (Start: 52 @50268 has 14 MA's), (63, 50283), (97, 50412), (113, 50472), (122, 50505), (147, 50577), (158, 50604), (163, 50622),

Gene: Auxilium_40 Start: 25834, Stop: 25505, Start Num: 58

Candidate Starts for Auxilium_40:

(Start: 58 @25834 has 13 MA's), (101, 25726), (135, 25639), (142, 25618), (163, 25567),

Gene: Bauer_37 Start: 26477, Stop: 26764, Start Num: 58

Candidate Starts for Bauer_37:

(42, 26429), (44, 26435), (Start: 58 @26477 has 13 MA's), (63, 26489), (139, 26654), (153, 26681), (160, 26690), (164, 26702), (168, 26720),

Gene: BellaJr_37 Start: 27529, Stop: 27828, Start Num: 58

Candidate Starts for BellaJr_37:

(34, 27454), (Start: 58 @27529 has 13 MA's), (63, 27541), (78, 27592), (83, 27601), (119, 27664), (143, 27730), (153, 27745), (164, 27766), (168, 27784),

Gene: BlueShadow_41 Start: 28230, Stop: 27841, Start Num: 61

Candidate Starts for BlueShadow_41:

(Start: 61 @28230 has 6 MA's), (84, 28146), (92, 28125), (106, 28095), (108, 28086), (113, 28065),

Gene: Bubbykins_71 Start: 48965, Stop: 49300, Start Num: 68

Candidate Starts for Bubbykins_71:

(Start: 68 @48965 has 1 MA's), (98, 49049), (114, 49103), (145, 49193), (159, 49226), (167, 49247),

Gene: Chipper1996_800 Start: 51561, Stop: 51953, Start Num: 52

Candidate Starts for Chipper1996_800:

(Start: 51 @51555 has 3 MA's), (Start: 52 @51561 has 14 MA's), (75, 51636), (76, 51639), (97, 51711), (113, 51771), (121, 51801), (132, 51822), (133, 51825), (142, 51849),

Gene: Chocolat_79 Start: 51268, Stop: 51660, Start Num: 52

Candidate Starts for Chocolat_79:

(Start: 51 @51262 has 3 MA's), (Start: 52 @51268 has 14 MA's), (75, 51343), (76, 51346), (97, 51418), (113, 51478), (121, 51508), (132, 51529), (133, 51532), (142, 51556),

Gene: Chubster_80 Start: 51962, Stop: 52354, Start Num: 52

Candidate Starts for Chubster_80:

(Start: 51 @51956 has 3 MA's), (Start: 52 @51962 has 14 MA's), (75, 52037), (76, 52040), (97, 52112), (113, 52172), (121, 52202), (132, 52223), (133, 52226), (142, 52250),

Gene: ChuckDuck_38 Start: 26145, Stop: 26492, Start Num: 40

Candidate Starts for ChuckDuck_38:

(17, 26001), (18, 26004), (Start: 40 @26145 has 1 MA's), (139, 26379), (153, 26406),

Gene: CocoCinnamon_56 Start: 35240, Stop: 35584, Start Num: 52

Candidate Starts for CocoCinnamon_56:

(46, 35210), (49, 35219), (Start: 51 @35234 has 3 MA's), (Start: 52 @35240 has 14 MA's), (55, 35243), (Start: 61 @35252 has 6 MA's), (70, 35300), (96, 35366), (107, 35387), (141, 35492),

Gene: Colucci_81 Start: 51910, Stop: 52302, Start Num: 52

Candidate Starts for Colucci_81:

(Start: 52 @51910 has 14 MA's), (97, 52060), (113, 52120), (121, 52150), (133, 52174), (142, 52198), (169, 52285),

Gene: Crescenzo_40 Start: 28602, Stop: 28297, Start Num: 58

Candidate Starts for Crescenzo_40:

(42, 28656), (Start: 58 @28602 has 13 MA's), (137, 28431), (151, 28392), (162, 28365),

Gene: DarwinJr_44 Start: 29257, Stop: 28883, Start Num: 56

Candidate Starts for DarwinJr_44:

(37, 29320), (47, 29290), (Start: 56 @29257 has 6 MA's), (69, 29206), (79, 29194), (111, 29119), (113, 29107), (124, 29068), (128, 29056),

Gene: DarwinJr_45 Start: 29564, Stop: 29250, Start Num: 56

Candidate Starts for DarwinJr_45:

(Start: 36 @29630 has 1 MA's), (38, 29621), (Start: 56 @29564 has 6 MA's), (154, 29339), (161, 29327),

Gene: Donatella_68 Start: 41819, Stop: 42394, Start Num: 29

Candidate Starts for Donatella_68:

(Start: 29 @41819 has 3 MA's), (32, 41837), (Start: 51 @41906 has 3 MA's), (127, 42176), (168, 42314),

Gene: EdgarPoe_78 Start: 51425, Stop: 51817, Start Num: 52

Candidate Starts for EdgarPoe_78:

(Start: 51 @51419 has 3 MA's), (Start: 52 @51425 has 14 MA's), (75, 51500), (76, 51503), (97, 51575), (113, 51635), (121, 51665), (132, 51686), (133, 51689), (142, 51713),

Gene: EvenBluerMoon_47 Start: 34191, Stop: 34832, Start Num: 13

Candidate Starts for EvenBluerMoon_47:

(8, 34149), (Start: 13 @34191 has 5 MA's), (26, 34293), (50, 34392), (85, 34515), (136, 34689), (163, 34764),

Gene: Gorpy_43 Start: 29526, Stop: 29197, Start Num: 58

Candidate Starts for Gorpy_43:

(Start: 58 @29526 has 13 MA's), (80, 29463), (81, 29460), (135, 29331), (142, 29310), (163, 29259),

Gene: Hereford_48 Start: 33935, Stop: 34576, Start Num: 13

Candidate Starts for Hereford_48:

(8, 33893), (Start: 13 @33935 has 5 MA's), (26, 34037), (50, 34136), (85, 34259), (136, 34433), (163, 34508),

Gene: Hestia_40 Start: 27726, Stop: 27310, Start Num: 58

Candidate Starts for Hestia_40:

(21, 27885), (Start: 58 @27726 has 13 MA's), (152, 27396),

Gene: HumptyDumpty_79 Start: 51228, Stop: 51620, Start Num: 52

Candidate Starts for HumptyDumpty_79:

(Start: 51 @51222 has 3 MA's), (Start: 52 @51228 has 14 MA's), (75, 51303), (76, 51306), (97, 51378), (113, 51438), (121, 51468), (132, 51489), (133, 51492), (142, 51516),

Gene: Isolde_43 Start: 28418, Stop: 28056, Start Num: 58

Candidate Starts for Isolde_43:

(Start: 58 @28418 has 13 MA's), (91, 28310), (122, 28220), (143, 28169), (148, 28151), (157, 28133),

Gene: JaNo_78 Start: 51193, Stop: 51591, Start Num: 51

Candidate Starts for JaNo_78:

(Start: 51 @51193 has 3 MA's), (Start: 52 @51199 has 14 MA's), (75, 51274), (76, 51277), (97, 51349), (113, 51409), (121, 51439), (132, 51460), (133, 51463), (142, 51487),

Gene: JakeTheSnake_44 Start: 29350, Stop: 29036, Start Num: 56

Candidate Starts for JakeTheSnake_44:

(Start: 36 @29416 has 1 MA's), (38, 29407), (Start: 56 @29350 has 6 MA's), (154, 29125), (161, 29113),

Gene: JanetJ_49 Start: 35354, Stop: 35842, Start Num: 13

Candidate Starts for JanetJ_49:

(8, 35312), (Start: 13 @35354 has 5 MA's), (85, 35525), (136, 35699), (163, 35774),

Gene: JellyBread_38 Start: 26865, Stop: 26491, Start Num: 58

Candidate Starts for JellyBread_38:

(31, 26937), (33, 26931), (35, 26928), (Start: 58 @26865 has 13 MA's), (63, 26853), (71, 26811), (77, 26805),

Gene: Judy_38 Start: 26628, Stop: 26987, Start Num: 60

Candidate Starts for Judy_38:

(Start: 60 @26628 has 2 MA's), (63, 26640),

Gene: Kabreeze_79 Start: 51285, Stop: 51677, Start Num: 52

Candidate Starts for Kabreeze_79:

(Start: 51 @51279 has 3 MA's), (Start: 52 @51285 has 14 MA's), (75, 51360), (76, 51363), (97, 51435), (113, 51495), (121, 51525), (132, 51546), (133, 51549), (142, 51573),

Gene: Kromp_73 Start: 47753, Stop: 47349, Start Num: 56

Candidate Starts for Kromp_73:

(Start: 56 @47753 has 6 MA's), (62, 47741), (103, 47612), (110, 47588), (117, 47558), (125, 47525), (134, 47495), (143, 47468), (146, 47459), (163, 47414),

Gene: Lasker_40 Start: 28079, Stop: 27765, Start Num: 56

Candidate Starts for Lasker_40:

(Start: 56 @28079 has 6 MA's), (74, 28013), (154, 27854), (161, 27842), (166, 27824),

Gene: Lawnathon_42 Start: 28163, Stop: 27801, Start Num: 58

Candidate Starts for Lawnathon_42:

(Start: 58 @28163 has 13 MA's), (122, 27965), (143, 27914), (148, 27896), (157, 27878),

Gene: LeBruni_39 Start: 27481, Stop: 27158, Start Num: 56

Candidate Starts for LeBruni_39:

(Start: 19 @27655 has 1 MA's), (Start: 56 @27481 has 6 MA's), (71, 27424), (77, 27418), (121, 27289),

Gene: Lenoxika_65 Start: 41111, Stop: 41638, Start Num: 29

Candidate Starts for Lenoxika_65:

(Start: 29 @41111 has 3 MA's), (32, 41129), (127, 41420), (168, 41558),

Gene: LilyBell_37 Start: 26044, Stop: 26394, Start Num: 40

Candidate Starts for LilyBell_37:

(Start: 40 @26044 has 1 MA's), (47, 26065), (66, 26128), (70, 26152), (139, 26281), (153, 26308),

Gene: Linus_79 Start: 51733, Stop: 52125, Start Num: 52

Candidate Starts for Linus_79:

(Start: 51 @51727 has 3 MA's), (Start: 52 @51733 has 14 MA's), (75, 51808), (76, 51811), (97, 51883), (113, 51943), (121, 51973), (132, 51994), (133, 51997), (142, 52021),

Gene: Lymara_75 Start: 50005, Stop: 50436, Start Num: 52

Candidate Starts for Lymara_75:

(Start: 51 @49999 has 3 MA's), (Start: 52 @50005 has 14 MA's), (63, 50020), (89, 50128), (93, 50134), (109, 50179), (112, 50197), (115, 50206), (118, 50215), (124, 50242), (151, 50323), (172, 50425),

Gene: MUWow_41 Start: 28531, Stop: 28031, Start Num: 23

Candidate Starts for MUWow_41:

(Start: 23 @28531 has 1 MA's), (24, 28522), (25, 28519), (Start: 39 @28450 has 2 MA's), (41, 28444), (43, 28438), (48, 28423), (Start: 61 @28384 has 6 MA's), (79, 28327), (111, 28252),

Gene: Mapleville_40 Start: 28242, Stop: 27880, Start Num: 58

Candidate Starts for Mapleville_40:

(Start: 58 @28242 has 13 MA's), (91, 28134), (122, 28044), (143, 27993), (148, 27975), (157, 27957),

Gene: MaterMagnus_42 Start: 28304, Stop: 27975, Start Num: 58

Candidate Starts for MaterMagnus_42:

(Start: 58 @28304 has 13 MA's), (80, 28241), (81, 28238), (135, 28109), (142, 28088), (163, 28037),

Gene: Merpity_31 Start: 22847, Stop: 22416, Start Num: 29

Candidate Starts for Merpity_31:

(Start: 29 @22847 has 3 MA's), (34, 22823), (72, 22763), (87, 22712), (116, 22637),

Gene: MidnightRain_44 Start: 29060, Stop: 28755, Start Num: 68

Candidate Starts for MidnightRain_44:

(Start: 68 @29060 has 1 MA's), (73, 29042), (104, 28976), (122, 28919), (143, 28868), (148, 28850), (157, 28832),

Gene: Mordred_79 Start: 51318, Stop: 51716, Start Num: 51

Candidate Starts for Mordred_79:

(Start: 51 @51318 has 3 MA's), (Start: 52 @51324 has 14 MA's), (75, 51399), (76, 51402), (97, 51474), (113, 51534), (121, 51564), (132, 51585), (133, 51588), (142, 51612),

Gene: Morrey_76 Start: 34295, Stop: 34834, Start Num: 26

Candidate Starts for Morrey_76:

(3, 33650), (8, 34151), (Start: 13 @34193 has 5 MA's), (26, 34295), (50, 34394), (85, 34517), (136, 34691), (163, 34766),

Gene: MrSmee_29 Start: 23244, Stop: 22936, Start Num: 61

Candidate Starts for MrSmee_29:

(24, 23382), (27, 23373), (28, 23367), (30, 23334), (Start: 40 @23307 has 1 MA's), (Start: 61 @23244 has 6 MA's), (83, 23172), (165, 22995),

Gene: NewKitty_40 Start: 27430, Stop: 27074, Start Num: 59

Candidate Starts for NewKitty_40:

(59, 27430), (69, 27382), (79, 27370), (111, 27295),

Gene: Nyilah_39 Start: 26837, Stop: 26430, Start Num: 36

Candidate Starts for Nyilah_39:

(Start: 36 @26837 has 1 MA's), (Start: 60 @26762 has 2 MA's), (66, 26735), (86, 26675), (154, 26519), (161, 26507), (162, 26501),

Gene: Persistence_36 Start: 26553, Stop: 26230, Start Num: 53

Candidate Starts for Persistence_36:

(Start: 53 @26553 has 2 MA's), (63, 26541), (78, 26490), (83, 26481), (120, 26415), (144, 26349),

Gene: Pigu_31 Start: 22735, Stop: 23076, Start Num: 57

Candidate Starts for Pigu_31:

(57, 22735), (115, 22849), (122, 22879),

Gene: Pitbull_73 Start: 38580, Stop: 38888, Start Num: 61

Candidate Starts for Pitbull_73:

(Start: 61 @38580 has 6 MA's), (65, 38598), (74, 38640), (115, 38694), (129, 38730), (137, 38754), (155, 38805), (171, 38883),

Gene: PrairieDogTown_48 Start: 34193, Stop: 34834, Start Num: 13

Candidate Starts for PrairieDogTown_48:

(3, 33650), (8, 34151), (Start: 13 @34193 has 5 MA's), (26, 34295), (50, 34394), (85, 34517), (136, 34691), (163, 34766),

Gene: PrincessTrina_80 Start: 51629, Stop: 52021, Start Num: 52

Candidate Starts for PrincessTrina_80:

(Start: 51 @51623 has 3 MA's), (Start: 52 @51629 has 14 MA's), (75, 51704), (76, 51707), (97, 51779), (113, 51839), (121, 51869), (132, 51890), (133, 51893), (142, 51917),

Gene: Richie_42 Start: 28324, Stop: 27962, Start Num: 58

Candidate Starts for Richie_42:

(Start: 58 @28324 has 13 MA's), (91, 28216), (122, 28126), (143, 28075), (148, 28057), (157, 28039),

Gene: Rooter_32 Start: 24062, Stop: 23754, Start Num: 60

Candidate Starts for Rooter_32:

(Start: 60 @24062 has 2 MA's), (74, 23999), (115, 23945), (129, 23909), (137, 23885), (155, 23834),

Gene: RosiePosie_79 Start: 51413, Stop: 51805, Start Num: 52

Candidate Starts for RosiePosie_79:

(Start: 51 @51407 has 3 MA's), (Start: 52 @51413 has 14 MA's), (75, 51488), (76, 51491), (97, 51563), (113, 51623), (121, 51653), (132, 51674), (133, 51677), (142, 51701),

Gene: Sakai_42 Start: 28237, Stop: 27908, Start Num: 58

Candidate Starts for Sakai_42:

(Start: 58 @28237 has 13 MA's), (80, 28174), (81, 28171), (135, 28042), (142, 28021), (163, 27970),

Gene: Scavito_80 Start: 51373, Stop: 51765, Start Num: 52

Candidate Starts for Scavito_80:

(Start: 51 @51367 has 3 MA's), (Start: 52 @51373 has 14 MA's), (75, 51448), (76, 51451), (97, 51523), (113, 51583), (121, 51613), (132, 51634), (133, 51637), (142, 51661),

Gene: SpicyFrank_41 Start: 28170, Stop: 27721, Start Num: 39

Candidate Starts for SpicyFrank_41:

(6, 28392), (10, 28353), (15, 28323), (Start: 39 @28170 has 2 MA's), (43, 28158), (66, 28086), (71, 28059), (130, 27876), (156, 27807),

Gene: Sporco_42 Start: 28336, Stop: 27938, Start Num: 58

Candidate Starts for Sporco_42:

(Start: 58 @28336 has 13 MA's), (99, 28210), (131, 28087), (152, 28024),

Gene: Tiff81_37 Start: 25801, Stop: 25427, Start Num: 61

Candidate Starts for Tiff81_37:

(Start: 61 @25801 has 6 MA's), (88, 25684), (95, 25669), (110, 25618),

Gene: ToastyOats_69 Start: 41481, Stop: 42008, Start Num: 29

Candidate Starts for ToastyOats_69:

(Start: 29 @41481 has 3 MA's), (32, 41499), (127, 41790), (168, 41928),

Gene: Tophat_80 Start: 51562, Stop: 51954, Start Num: 52

Candidate Starts for Tophat_80:

(Start: 51 @51556 has 3 MA's), (Start: 52 @51562 has 14 MA's), (75, 51637), (76, 51640), (97, 51712), (113, 51772), (121, 51802), (132, 51823), (133, 51826), (142, 51850),

Gene: TripleJ_80 Start: 42604, Stop: 43176, Start Num: 61

Candidate Starts for TripleJ_80:

(14, 42373), (16, 42394), (Start: 61 @42604 has 6 MA's), (73, 42661), (167, 42922), (173, 43033), (174, 43063), (175, 43123),

Gene: Vopal_45 Start: 31144, Stop: 30827, Start Num: 61

Candidate Starts for Vopal_45:

(20, 31315), (22, 31300), (45, 31195), (Start: 61 @31144 has 6 MA's), (95, 31045), (105, 31021), (128, 30937), (144, 30910),

Gene: Whack_71 Start: 46738, Stop: 47166, Start Num: 51

Candidate Starts for Whack_71:

(Start: 51 @46738 has 3 MA's), (Start: 61 @46756 has 6 MA's), (63, 46765), (70, 46804), (90, 46876), (121, 46987), (126, 47005), (138, 47041), (140, 47044), (160, 47098),

Gene: Whack_72 Start: 47171, Stop: 47581, Start Num: 61

Candidate Starts for Whack_72:

(Start: 61 @47171 has 6 MA's), (63, 47180), (94, 47300), (100, 47321), (102, 47327), (120, 47396), (164, 47531), (170, 47576),

Gene: Windest_42 Start: 27278, Stop: 26847, Start Num: 39

Candidate Starts for Windest_42:

(7, 27491), (9, 27479), (12, 27455), (Start: 39 @27278 has 2 MA's), (64, 27206), (122, 27011), (143, 26960), (148, 26942), (157, 26924),

Gene: YoungHarleezy_42 Start: 28307, Stop: 27978, Start Num: 58

Candidate Starts for YoungHarleezy_42:

(Start: 58 @28307 has 13 MA's), (80, 28244), (81, 28241), (135, 28112), (142, 28091), (163, 28040),

Gene: Zucker_33 Start: 26898, Stop: 26590, Start Num: 60

Candidate Starts for Zucker_33:

(Start: 60 @26898 has 2 MA's), (74, 26835), (123, 26748), (150, 26688), (151, 26685), (154, 26676),