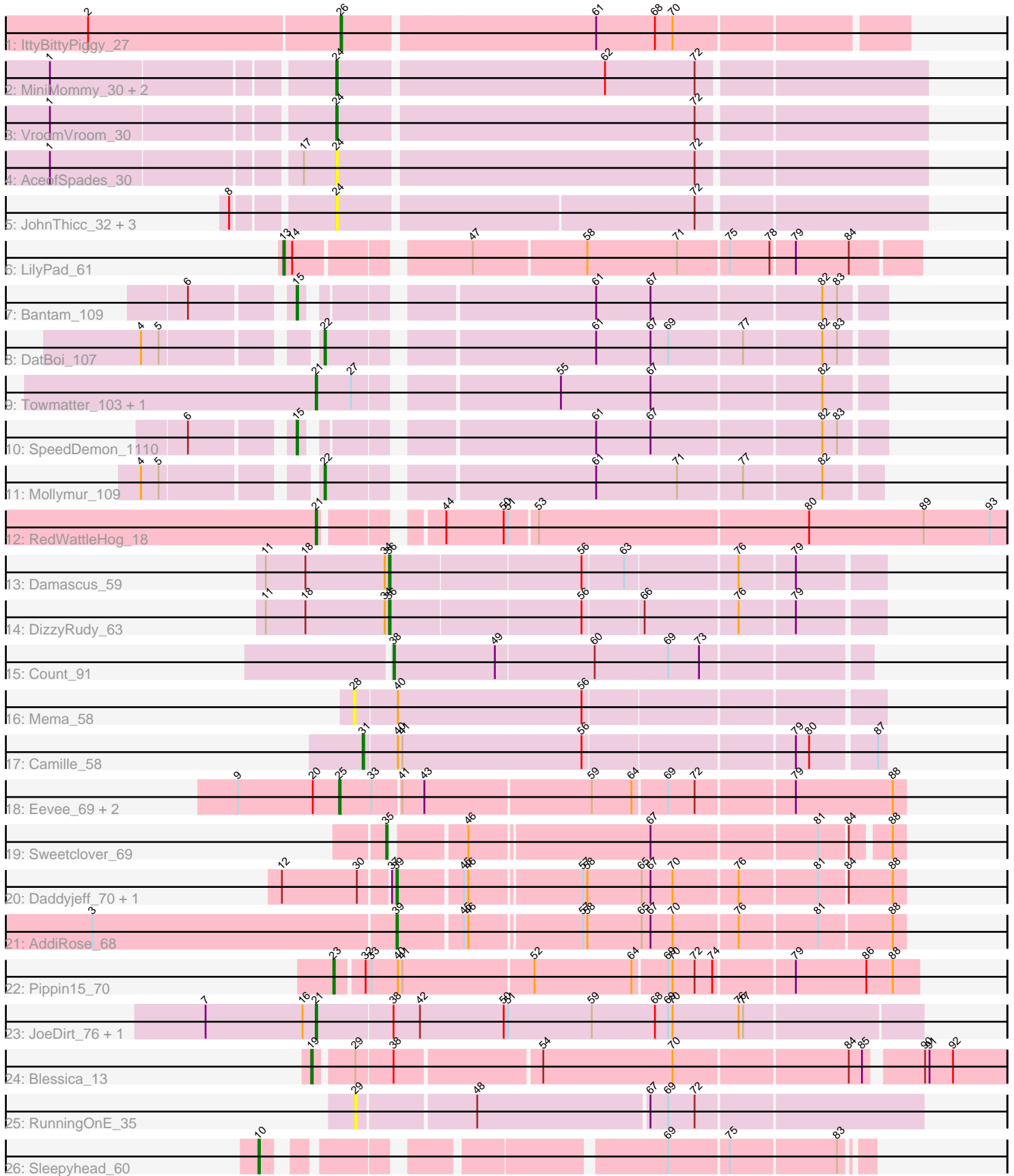


Pham 294910



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 294910 Report

This analysis was run 04/18/26 on database version 643.

Pham number 294910 has 36 members, 7 are drafts.

Phages represented in each track:

- Track 1 : IttyBittyPiggy_27
- Track 2 : MiniMommy_30, JasmineDragon_30, ShakeltOph_30
- Track 3 : VroomVroom_30
- Track 4 : AceofSpades_30
- Track 5 : JohnThicc_32, FiveHead_33, LadyAstra_31, Origami_31
- Track 6 : LilyPad_61
- Track 7 : Bantam_109
- Track 8 : DatBoi_107
- Track 9 : Towmatter_103, Daredevil_104
- Track 10 : SpeedDemon_1110
- Track 11 : Mollymur_109
- Track 12 : RedWattleHog_18
- Track 13 : Damascus_59
- Track 14 : DizzyRudy_63
- Track 15 : Count_91
- Track 16 : Mema_58
- Track 17 : Camille_58
- Track 18 : Eevee_69, JoyLin_69, Yotsuba_69
- Track 19 : Sweetclover_69
- Track 20 : Daddyjeff_70, Serenabean_69
- Track 21 : AddiRose_68
- Track 22 : Pippin15_70
- Track 23 : JoeDirt_76, OhShagHennessy_74
- Track 24 : Blessica_13
- Track 25 : RunningOnE_35
- Track 26 : Sleepyhead_60

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

The start number called the most often in the published annotations is 21, it was called in 5 of the 29 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Daredevil_104, JoeDirt_76, OhShagHennessey_74, RedWattleHog_18, Towmatter_103,

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

-

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

- AceofSpades_30, AddiRose_68, Bantam_109, Blessica_13, Camille_58, Count_91, Daddyjeff_70, Damascus_59, DatBoi_107, DizzyRudy_63, Eevee_69, FiveHead_33, IttyBittyPiggy_27, JasmineDragon_30, JohnThicc_32, JoyLin_69, LadyAstra_31, LilyPad_61, Mema_58, MiniMommy_30, Mollymur_109, Origami_31, Pippin15_70, RunningOnE_35, Serenabean_69, ShakeltOph_30, Sleepyhead_60, SpeedDemon_1110, Sweetclover_69, VroomVroom_30, Yotsuba_69,

Summary by start number:

Start 10:

- Found in 1 of 36 (2.8%) of genes in pham
- Manual Annotations of this start: 1 of 29
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Sleepyhead_60 (singleton),

Start 13:

- Found in 1 of 36 (2.8%) of genes in pham
- Manual Annotations of this start: 1 of 29
- Called 100.0% of time when present
- Phage (with cluster) where this start called: LilyPad_61 (DG1),

Start 15:

- Found in 2 of 36 (5.6%) of genes in pham
- Manual Annotations of this start: 2 of 29
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Bantam_109 (DL), SpeedDemon_1110 (DL),

Start 19:

- Found in 1 of 36 (2.8%) of genes in pham
- Manual Annotations of this start: 1 of 29
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Blessica_13 (O),

Start 21:

- Found in 5 of 36 (13.9%) of genes in pham
- Manual Annotations of this start: 5 of 29
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Daredevil_104 (DL), JoeDirt_76 (L1), OhShagHennessey_74 (L1), RedWattleHog_18 (DX), Towmatter_103 (DL),

Start 22:

- Found in 2 of 36 (5.6%) of genes in pham
- Manual Annotations of this start: 2 of 29
- Called 100.0% of time when present
- Phage (with cluster) where this start called: DatBoi_107 (DL), Mollymur_109 (DL),

Start 23:

- Found in 1 of 36 (2.8%) of genes in pham
- Manual Annotations of this start: 1 of 29
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Pippin15_70 (JA),

Start 24:

- Found in 9 of 36 (25.0%) of genes in pham
- Manual Annotations of this start: 4 of 29
- Called 100.0% of time when present
- Phage (with cluster) where this start called: AceofSpades_30 (AZ4), FiveHead_33 (AZ4), JasmineDragon_30 (AZ4), JohnThicc_32 (AZ4), LadyAstra_31 (AZ4), MiniMommy_30 (AZ4), Origami_31 (AZ4), ShakeltOph_30 (AZ4), VroomVroom_30 (AZ4),

Start 25:

- Found in 3 of 36 (8.3%) of genes in pham
- Manual Annotations of this start: 3 of 29
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Eevee_69 (JA), JoyLin_69 (JA), Yotsuba_69 (JA),

Start 26:

- Found in 1 of 36 (2.8%) of genes in pham
- Manual Annotations of this start: 1 of 29
- Called 100.0% of time when present
- Phage (with cluster) where this start called: IttyBittyPiggy_27 (AZ1),

Start 28:

- Found in 1 of 36 (2.8%) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Mema_58 (EL),

Start 29:

- Found in 2 of 36 (5.6%) of genes in pham
- No Manual Annotations of this start.
- Called 50.0% of time when present
- Phage (with cluster) where this start called: RunningOnE_35 (UNK),

Start 31:

- Found in 1 of 36 (2.8%) of genes in pham
- Manual Annotations of this start: 1 of 29
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Camille_58 (EL),

Start 35:

- Found in 1 of 36 (2.8%) of genes in pham
- Manual Annotations of this start: 1 of 29
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Sweetclover_69 (JA),

Start 36:

- Found in 2 of 36 (5.6%) of genes in pham
- Manual Annotations of this start: 2 of 29
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Damascus_59 (EL), DizzyRudy_63 (EL),

Start 38:

- Found in 4 of 36 (11.1%) of genes in pham
- Manual Annotations of this start: 1 of 29
- Called 25.0% of time when present
- Phage (with cluster) where this start called: Count_91 (EL),

Start 39:

- Found in 3 of 36 (8.3%) of genes in pham
- Manual Annotations of this start: 3 of 29
- Called 100.0% of time when present
- Phage (with cluster) where this start called: AddiRose_68 (JA), Daddyjeff_70 (JA), Serenabean_69 (JA),

Summary by clusters:

There are 11 clusters represented in this pham: EL, DL, singleton, O, DG1, DX, L1, AZ1, UNK, AZ4, JA,

Info for manual annotations of cluster AZ1:

- Start number 26 was manually annotated 1 time for cluster AZ1.

Info for manual annotations of cluster AZ4:

- Start number 24 was manually annotated 4 times for cluster AZ4.

Info for manual annotations of cluster DG1:

- Start number 13 was manually annotated 1 time for cluster DG1.

Info for manual annotations of cluster DL:

- Start number 15 was manually annotated 2 times for cluster DL.
- Start number 21 was manually annotated 2 times for cluster DL.
- Start number 22 was manually annotated 2 times for cluster DL.

Info for manual annotations of cluster DX:

- Start number 21 was manually annotated 1 time for cluster DX.

Info for manual annotations of cluster EL:

- Start number 31 was manually annotated 1 time for cluster EL.
- Start number 36 was manually annotated 2 times for cluster EL.
- Start number 38 was manually annotated 1 time for cluster EL.

Info for manual annotations of cluster JA:

- Start number 23 was manually annotated 1 time for cluster JA.
- Start number 25 was manually annotated 3 times for cluster JA.
- Start number 35 was manually annotated 1 time for cluster JA.
- Start number 39 was manually annotated 3 times for cluster JA.

Info for manual annotations of cluster L1:

- Start number 21 was manually annotated 2 times for cluster L1.

Info for manual annotations of cluster O:

- Start number 19 was manually annotated 1 time for cluster O.

Gene Information:

Gene: AceofSpades_30 Start: 22705, Stop: 23088, Start Num: 24

Candidate Starts for AceofSpades_30:

(1, 22525), (17, 22684), (Start: 24 @22705 has 4 MA's), (72, 22939),

Gene: AddiRose_68 Start: 43648, Stop: 43974, Start Num: 39

Candidate Starts for AddiRose_68:

(3, 43444), (Start: 39 @43648 has 3 MA's), (45, 43690), (46, 43693), (57, 43765), (58, 43768), (65, 43804), (67, 43810), (70, 43825), (76, 43867), (81, 43918), (88, 43966),

Gene: Bantam_109 Start: 70339, Stop: 70695, Start Num: 15

Candidate Starts for Bantam_109:

(6, 70279), (Start: 15 @70339 has 2 MA's), (61, 70510), (67, 70546), (82, 70657), (83, 70666),

Gene: Blessica_13 Start: 5453, Stop: 5890, Start Num: 19

Candidate Starts for Blessica_13:

(Start: 19 @5453 has 1 MA's), (29, 5477), (Start: 38 @5501 has 1 MA's), (54, 5594), (70, 5681), (84, 5795), (85, 5804), (90, 5837), (91, 5840), (92, 5855),

Gene: Camille_58 Start: 41232, Stop: 41567, Start Num: 31

Candidate Starts for Camille_58:

(Start: 31 @41232 has 1 MA's), (40, 41253), (41, 41256), (56, 41376), (79, 41511), (80, 41520), (87, 41562),

Gene: Count_91 Start: 59562, Stop: 59873, Start Num: 38

Candidate Starts for Count_91:

(Start: 38 @59562 has 1 MA's), (49, 59631), (60, 59697), (69, 59745), (73, 59766),

Gene: Daddyjeff_70 Start: 44061, Stop: 44387, Start Num: 39

Candidate Starts for Daddyjeff_70:

(12, 43989), (30, 44040), (37, 44058), (Start: 39 @44061 has 3 MA's), (45, 44103), (46, 44106), (57, 44178), (58, 44181), (65, 44217), (67, 44223), (70, 44238), (76, 44280), (81, 44331), (84, 44349), (88, 44379),

Gene: Damascus_59 Start: 42669, Stop: 42986, Start Num: 36

Candidate Starts for Damascus_59:

(11, 42585), (18, 42612), (34, 42666), (Start: 36 @42669 has 2 MA's), (56, 42795), (63, 42822), (76, 42894), (79, 42930),

Gene: Daredevil_104 Start: 67182, Stop: 67538, Start Num: 21

Candidate Starts for Daredevil_104:

(Start: 21 @67182 has 5 MA's), (27, 67206), (55, 67329), (67, 67389), (82, 67500),

Gene: DatBoi_107 Start: 69816, Stop: 70166, Start Num: 22

Candidate Starts for DatBoi_107:

(4, 69714), (5, 69726), (Start: 22 @69816 has 2 MA's), (61, 69981), (67, 70017), (69, 70029), (77, 70077), (82, 70128), (83, 70137),

Gene: DizzyRudy_63 Start: 42556, Stop: 42873, Start Num: 36

Candidate Starts for DizzyRudy_63:

(11, 42472), (18, 42499), (34, 42553), (Start: 36 @42556 has 2 MA's), (56, 42682), (66, 42721), (76, 42781), (79, 42817),

Gene: Eevee_69 Start: 47508, Stop: 47876, Start Num: 25

Candidate Starts for Eevee_69:

(9, 47439), (20, 47490), (Start: 25 @47508 has 3 MA's), (33, 47529), (41, 47547), (43, 47562), (59, 47673), (64, 47700), (69, 47721), (72, 47739), (79, 47802), (88, 47868),

Gene: FiveHead_33 Start: 22717, Stop: 23097, Start Num: 24

Candidate Starts for FiveHead_33:

(8, 22657), (Start: 24 @22717 has 4 MA's), (72, 22948),

Gene: IttyBittyPiggy_27 Start: 22317, Stop: 22682, Start Num: 26

Candidate Starts for IttyBittyPiggy_27:

(2, 22149), (Start: 26 @22317 has 1 MA's), (61, 22482), (68, 22521), (70, 22533),

Gene: JasmineDragon_30 Start: 22617, Stop: 23000, Start Num: 24

Candidate Starts for JasmineDragon_30:

(1, 22437), (Start: 24 @22617 has 4 MA's), (62, 22791), (72, 22851),

Gene: JoeDirt_76 Start: 51825, Stop: 52229, Start Num: 21

Candidate Starts for JoeDirt_76:

(7, 51750), (16, 51816), (Start: 21 @51825 has 5 MA's), (Start: 38 @51876 has 1 MA's), (42, 51894), (50, 51951), (51, 51954), (59, 52011), (68, 52053), (69, 52062), (70, 52065), (76, 52110), (77, 52113),

Gene: JohnThicc_32 Start: 22717, Stop: 23097, Start Num: 24

Candidate Starts for JohnThicc_32:

(8, 22657), (Start: 24 @22717 has 4 MA's), (72, 22948),

Gene: JoyLin_69 Start: 47628, Stop: 47996, Start Num: 25

Candidate Starts for JoyLin_69:

(9, 47559), (20, 47610), (Start: 25 @47628 has 3 MA's), (33, 47649), (41, 47667), (43, 47682), (59, 47793), (64, 47820), (69, 47841), (72, 47859), (79, 47922), (88, 47988),

Gene: LadyAstra_31 Start: 22651, Stop: 23034, Start Num: 24

Candidate Starts for LadyAstra_31:

(8, 22591), (Start: 24 @22651 has 4 MA's), (72, 22885),

Gene: LilyPad_61 Start: 44847, Stop: 45245, Start Num: 13

Candidate Starts for LilyPad_61:

(Start: 13 @44847 has 1 MA's), (14, 44853), (47, 44955), (58, 45030), (71, 45090), (75, 45123), (78, 45150), (79, 45165), (84, 45201),

Gene: Mema_58 Start: 45072, Stop: 45413, Start Num: 28

Candidate Starts for Mema_58:

(28, 45072), (40, 45099), (56, 45222),

Gene: MiniMommy_30 Start: 22618, Stop: 23001, Start Num: 24
Candidate Starts for MiniMommy_30:
(1, 22438), (Start: 24 @22618 has 4 MA's), (62, 22792), (72, 22852),

Gene: Mollymur_109 Start: 70923, Stop: 71270, Start Num: 22
Candidate Starts for Mollymur_109:
(4, 70821), (5, 70833), (Start: 22 @70923 has 2 MA's), (61, 71088), (71, 71142), (77, 71184), (82, 71235),

Gene: OhShagHennessy_74 Start: 50528, Stop: 50932, Start Num: 21
Candidate Starts for OhShagHennessy_74:
(7, 50453), (16, 50519), (Start: 21 @50528 has 5 MA's), (Start: 38 @50579 has 1 MA's), (42, 50597), (50, 50654), (51, 50657), (59, 50714), (68, 50756), (69, 50765), (70, 50768), (76, 50813), (77, 50816),

Gene: Origami_31 Start: 22651, Stop: 23034, Start Num: 24
Candidate Starts for Origami_31:
(8, 22591), (Start: 24 @22651 has 4 MA's), (72, 22885),

Gene: Pippin15_70 Start: 44587, Stop: 44967, Start Num: 23
Candidate Starts for Pippin15_70:
(Start: 23 @44587 has 1 MA's), (32, 44605), (33, 44608), (40, 44626), (41, 44629), (52, 44716), (64, 44782), (69, 44803), (70, 44806), (72, 44821), (74, 44833), (79, 44884), (86, 44932), (88, 44950),

Gene: RedWattleHog_18 Start: 21845, Stop: 22282, Start Num: 21
Candidate Starts for RedWattleHog_18:
(Start: 21 @21845 has 5 MA's), (44, 21908), (50, 21947), (51, 21950), (53, 21968), (80, 22148), (89, 22226), (93, 22271),

Gene: RunningOnE_35 Start: 16150, Stop: 15782, Start Num: 29
Candidate Starts for RunningOnE_35:
(29, 16150), (48, 16075), (67, 15961), (69, 15949), (72, 15931),

Gene: Serenabean_69 Start: 43953, Stop: 44279, Start Num: 39
Candidate Starts for Serenabean_69:
(12, 43881), (30, 43932), (37, 43950), (Start: 39 @43953 has 3 MA's), (45, 43995), (46, 43998), (57, 44070), (58, 44073), (65, 44109), (67, 44115), (70, 44130), (76, 44172), (81, 44223), (84, 44241), (88, 44271),

Gene: ShakeltOph_30 Start: 22617, Stop: 23000, Start Num: 24
Candidate Starts for ShakeltOph_30:
(1, 22437), (Start: 24 @22617 has 4 MA's), (62, 22791), (72, 22851),

Gene: Sleepyhead_60 Start: 39674, Stop: 40021, Start Num: 10
Candidate Starts for Sleepyhead_60:
(Start: 10 @39674 has 1 MA's), (69, 39896), (75, 39935), (83, 40004),

Gene: SpeedDemon_1110 Start: 72859, Stop: 73215, Start Num: 15
Candidate Starts for SpeedDemon_1110:
(6, 72799), (Start: 15 @72859 has 2 MA's), (61, 73030), (67, 73066), (82, 73177), (83, 73186),

Gene: Sweetclover_69 Start: 43166, Stop: 43486, Start Num: 35
Candidate Starts for Sweetclover_69:
(Start: 35 @43166 has 1 MA's), (46, 43211), (67, 43328), (81, 43436), (84, 43454), (88, 43478),

Gene: Towmatter_103 Start: 67264, Stop: 67620, Start Num: 21

Candidate Starts for Towmatter_103:

(Start: 21 @67264 has 5 MA's), (27, 67288), (55, 67411), (67, 67471), (82, 67582),

Gene: VroomVroom_30 Start: 22712, Stop: 23095, Start Num: 24

Candidate Starts for VroomVroom_30:

(1, 22532), (Start: 24 @22712 has 4 MA's), (72, 22946),

Gene: Yotsuba_69 Start: 47646, Stop: 48014, Start Num: 25

Candidate Starts for Yotsuba_69:

(9, 47577), (20, 47628), (Start: 25 @47646 has 3 MA's), (33, 47667), (41, 47685), (43, 47700), (59, 47811), (64, 47838), (69, 47859), (72, 47877), (79, 47940), (88, 48006),