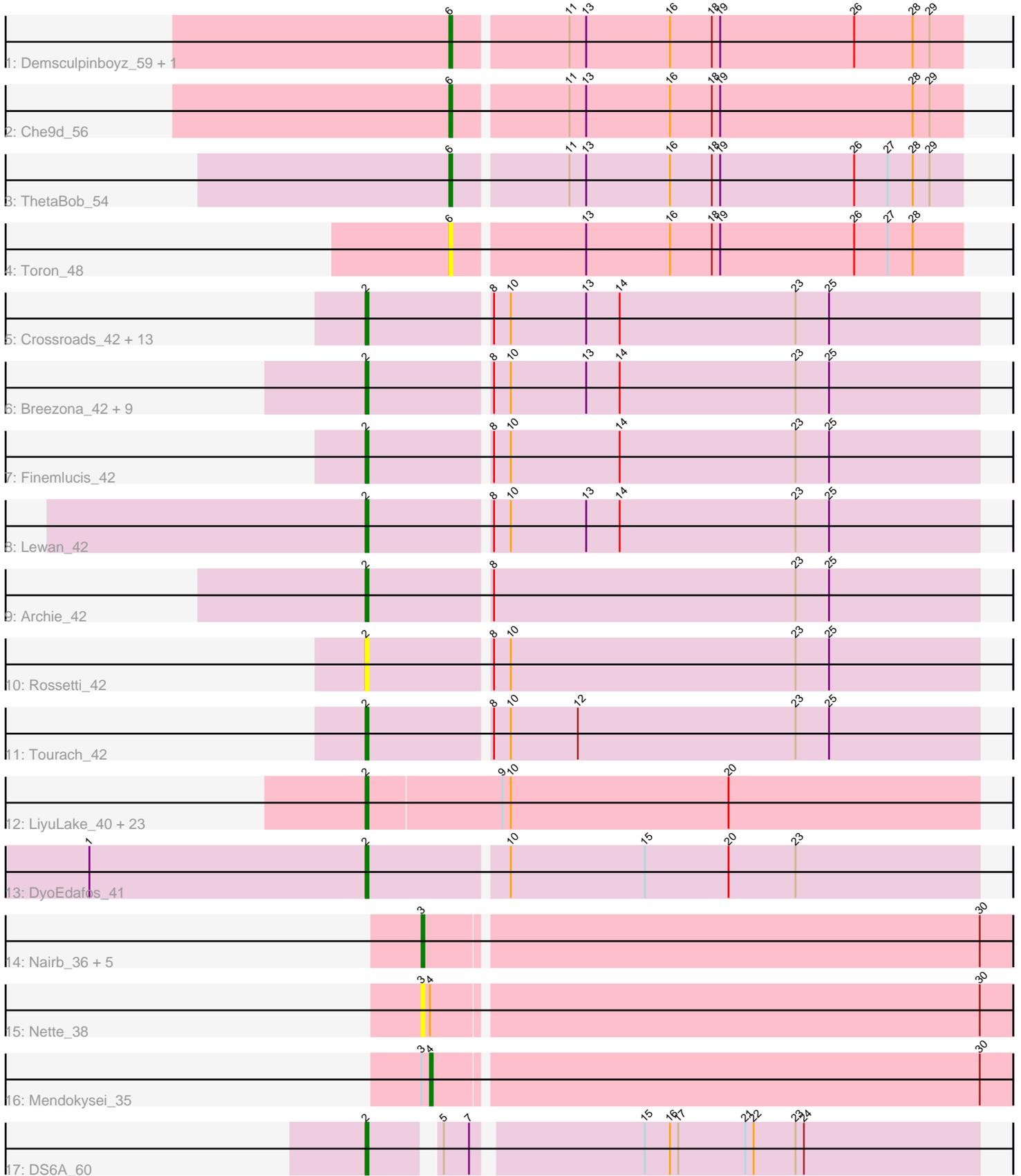


Pham 283782



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 283782 Report

This analysis was run 02/23/26 on database version 636.

Pham number 283782 has 68 members, 8 are drafts.

Phages represented in each track:

- Track 1 : Demsculpinboyz_59, Yoshi_61
- Track 2 : Che9d_56
- Track 3 : ThetaBob_54
- Track 4 : Toron_48
- Track 5 : Crossroads_42, Vetrix_42, Wilder_42, Loadrie_42, Wigglewiggles_42, Gabriela_42, Nicholasp3_42, Underpass_42, Kahlid_42, Gardann_42, Rumpelstiltskin_42, Zakai_42, GuuelaD_42, MkaliMitinis3_42
- Track 6 : Breezona_42, BigCheese_42, BobsGarage_42, Faith1_42, Netyap_42, DrSeegs_42, Miley16_42, Itos_41, LilDestine_42, Winky_42
- Track 7 : Finemlucis_42
- Track 8 : Lewan_42
- Track 9 : Archie_42
- Track 10 : Rossetti_42
- Track 11 : Tourach_42
- Track 12 : LiyuLake_40, MiniLon_40, Lolly9_40, Clautastrophe_40, TriFive_40, Krypton555_40, Whirlwind_41, MiniMac_40, DuncansLeg_40, KirDoubleO7_38, BourbonZero_39, Lumos_40, Bellis_40, Jubie_40, MsGreen_40, Finnry_40, Ellson_40, Nicholas_40, Jobypre_40, Moostard_40, Samty_40, Kingsolomon_40, Snenia_40, Red305_40
- Track 13 : DyoEdafos_41
- Track 14 : Nairb_36, Bernal13_37, Whitty_37, ZenTime222_36, Ibrahim_37, RonRayGun_37
- Track 15 : Nette_38
- Track 16 : Mendokysei_35
- Track 17 : DS6A_60

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

The start number called the most often in the published annotations is 2, it was called in 49 of the 60 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Archie_42, Bellis_40, BigCheese_42, BobsGarage_42, BourbonZero_39, Breezona_42, Clautastrophe_40, Crossroads_42, DS6A_60, DrSeegs_42,

DuncansLeg_40, DyoEdafos_41, Ellson_40, Faith1_42, Finemlucis_42, Finnry_40, Gabriela_42, Gardann_42, GuuelaD_42, Itos_41, Jobypre_40, Jubie_40, Kahlid_42, Kingsolomon_40, KirDoubleO7_38, Krypton555_40, Lewan_42, LilDestine_42, LiyuLake_40, Loadrie_42, Lolly9_40, Lumos_40, Miley16_42, MiniLon_40, MiniMac_40, MkaliMitinis3_42, Moostard_40, MsGreen_40, Netyap_42, Nicholas_40, Nicholasp3_42, Red305_40, Rossetti_42, Rumpelstiltskin_42, Samty_40, Snenia_40, Tourach_42, TriFive_40, Underpass_42, Vetrix_42, Whirlwind_41, Wigglewiggie_42, Wilder_42, Winky_42, Zakai_42,

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

-

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

- Bernal13_37, Che9d_56, Demsculpinboyz_59, Ibrahim_37, Mendokysei_35, Nairb_36, Nette_38, RonRayGun_37, ThetaBob_54, Toron_48, Whitty_37, Yoshi_61, ZenTime222_36,

Summary by start number:

Start 2:

- Found in 55 of 68 (80.9%) of genes in pham
- Manual Annotations of this start: 49 of 60
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Archie_42 (L2), Bellis_40 (L3), BigCheese_42 (L2), BobsGarage_42 (L2), BourbonZero_39 (L3), Breezona_42 (L2), Clautastrophe_40 (L3), Crossroads_42 (L2), DS6A_60 (singleton), DrSeegs_42 (L2), DuncansLeg_40 (L3), DyoEdafos_41 (L4), Ellson_40 (L3), Faith1_42 (L2), Finemlucis_42 (L2), Finnry_40 (L3), Gabriela_42 (L2), Gardann_42 (L2), GuuelaD_42 (L2), Itos_41 (L2), Jobypre_40 (L3), Jubie_40 (L3), Kahlid_42 (L2), Kingsolomon_40 (L3), KirDoubleO7_38 (L3), Krypton555_40 (L3), Lewan_42 (L2), LilDestine_42 (L2), LiyuLake_40 (L3), Loadrie_42 (L2), Lolly9_40 (L3), Lumos_40 (L3), Miley16_42 (L2), MiniLon_40 (L3), MiniMac_40 (L3), MkaliMitinis3_42 (L2), Moostard_40 (L3), MsGreen_40 (L3), Netyap_42 (L2), Nicholas_40 (L3), Nicholasp3_42 (L2), Red305_40 (L3), Rossetti_42 (L2), Rumpelstiltskin_42 (L2), Samty_40 (L3), Snenia_40 (L3), Tourach_42 (L2), TriFive_40 (L3), Underpass_42 (L2), Vetrix_42 (L2), Whirlwind_41 (L3), Wigglewiggie_42 (L2), Wilder_42 (L2), Winky_42 (L2), Zakai_42 (L2),

Start 3:

- Found in 8 of 68 (11.8%) of genes in pham
- Manual Annotations of this start: 6 of 60
- Called 87.5% of time when present
- Phage (with cluster) where this start called: Bernal13_37 (T), Ibrahim_37 (T), Nairb_36 (T), Nette_38 (T), RonRayGun_37 (T), Whitty_37 (T), ZenTime222_36 (T),

Start 4:

- Found in 2 of 68 (2.9%) of genes in pham
- Manual Annotations of this start: 1 of 60
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Mendokysei_35 (T),

Start 6:

- Found in 5 of 68 (7.4%) of genes in pham

- Manual Annotations of this start: 4 of 60
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Che9d_56 (F2), Demsculpinboyz_59 (F2), ThetaBob_54 (F4), Toron_48 (F6), Yoshi_61 (F2),

Summary by clusters:

There are 8 clusters represented in this pham: singleton, F4, F6, F2, L4, L2, T, L3,

Info for manual annotations of cluster F2:

- Start number 6 was manually annotated 3 times for cluster F2.

Info for manual annotations of cluster F4:

- Start number 6 was manually annotated 1 time for cluster F4.

Info for manual annotations of cluster L2:

- Start number 2 was manually annotated 28 times for cluster L2.

Info for manual annotations of cluster L3:

- Start number 2 was manually annotated 19 times for cluster L3.

Info for manual annotations of cluster L4:

- Start number 2 was manually annotated 1 time for cluster L4.

Info for manual annotations of cluster T:

- Start number 3 was manually annotated 6 times for cluster T.
- Start number 4 was manually annotated 1 time for cluster T.

Gene Information:

Gene: Archie_42 Start: 34898, Stop: 35113, Start Num: 2

Candidate Starts for Archie_42:

(Start: 2 @34898 has 49 MA's), (8, 34940), (23, 35048), (25, 35060),

Gene: Bellis_40 Start: 34953, Stop: 35168, Start Num: 2

Candidate Starts for Bellis_40:

(Start: 2 @34953 has 49 MA's), (9, 34998), (10, 35001), (20, 35079),

Gene: Bernal13_37 Start: 30311, Stop: 30517, Start Num: 3

Candidate Starts for Bernal13_37:

(Start: 3 @30311 has 6 MA's), (30, 30506),

Gene: BigCheese_42 Start: 34694, Stop: 34909, Start Num: 2

Candidate Starts for BigCheese_42:

(Start: 2 @34694 has 49 MA's), (8, 34736), (10, 34742), (13, 34769), (14, 34781), (23, 34844), (25, 34856),

Gene: BobsGarage_42 Start: 34694, Stop: 34909, Start Num: 2

Candidate Starts for BobsGarage_42:

(Start: 2 @34694 has 49 MA's), (8, 34736), (10, 34742), (13, 34769), (14, 34781), (23, 34844), (25, 34856),

Gene: BourbonZero_39 Start: 34932, Stop: 35150, Start Num: 2

Candidate Starts for BourbonZero_39:

(Start: 2 @34932 has 49 MA's), (9, 34980), (10, 34983), (20, 35061),

Gene: Breezona_42 Start: 34694, Stop: 34909, Start Num: 2

Candidate Starts for Breezona_42:

(Start: 2 @34694 has 49 MA's), (8, 34736), (10, 34742), (13, 34769), (14, 34781), (23, 34844), (25, 34856),

Gene: Che9d_56 Start: 35970, Stop: 36149, Start Num: 6

Candidate Starts for Che9d_56:

(Start: 6 @35970 has 4 MA's), (11, 36009), (13, 36015), (16, 36045), (18, 36060), (19, 36063), (28, 36132), (29, 36138),

Gene: Clautastrophe_40 Start: 34951, Stop: 35166, Start Num: 2

Candidate Starts for Clautastrophe_40:

(Start: 2 @34951 has 49 MA's), (9, 34996), (10, 34999), (20, 35077),

Gene: Crossroads_42 Start: 34696, Stop: 34911, Start Num: 2

Candidate Starts for Crossroads_42:

(Start: 2 @34696 has 49 MA's), (8, 34738), (10, 34744), (13, 34771), (14, 34783), (23, 34846), (25, 34858),

Gene: DS6A_60 Start: 41278, Stop: 41484, Start Num: 2

Candidate Starts for DS6A_60:

(Start: 2 @41278 has 49 MA's), (5, 41299), (7, 41308), (15, 41365), (16, 41374), (17, 41377), (21, 41401), (22, 41404), (23, 41419), (24, 41422),

Gene: Demsculpinboyz_59 Start: 36079, Stop: 36258, Start Num: 6

Candidate Starts for Demsculpinboyz_59:

(Start: 6 @36079 has 4 MA's), (11, 36118), (13, 36124), (16, 36154), (18, 36169), (19, 36172), (26, 36220), (28, 36241), (29, 36247),

Gene: DrSeegs_42 Start: 34694, Stop: 34909, Start Num: 2

Candidate Starts for DrSeegs_42:

(Start: 2 @34694 has 49 MA's), (8, 34736), (10, 34742), (13, 34769), (14, 34781), (23, 34844), (25, 34856),

Gene: DuncansLeg_40 Start: 34969, Stop: 35187, Start Num: 2

Candidate Starts for DuncansLeg_40:

(Start: 2 @34969 has 49 MA's), (9, 35017), (10, 35020), (20, 35098),

Gene: DyoEdafos_41 Start: 33704, Stop: 33919, Start Num: 2

Candidate Starts for DyoEdafos_41:

(1, 33605), (Start: 2 @33704 has 49 MA's), (10, 33752), (15, 33800), (20, 33830), (23, 33854),

Gene: Ellson_40 Start: 34945, Stop: 35163, Start Num: 2

Candidate Starts for Ellson_40:

(Start: 2 @34945 has 49 MA's), (9, 34993), (10, 34996), (20, 35074),

Gene: Faith1_42 Start: 34694, Stop: 34909, Start Num: 2

Candidate Starts for Faith1_42:

(Start: 2 @34694 has 49 MA's), (8, 34736), (10, 34742), (13, 34769), (14, 34781), (23, 34844), (25, 34856),

Gene: Finemlucis_42 Start: 34970, Stop: 35185, Start Num: 2

Candidate Starts for Finemlucis_42:

(Start: 2 @34970 has 49 MA's), (8, 35012), (10, 35018), (14, 35057), (23, 35120), (25, 35132),

Gene: Finnry_40 Start: 34954, Stop: 35169, Start Num: 2

Candidate Starts for Finnry_40:

(Start: 2 @34954 has 49 MA's), (9, 34999), (10, 35002), (20, 35080),

Gene: Gabriela_42 Start: 34956, Stop: 35171, Start Num: 2

Candidate Starts for Gabriela_42:

(Start: 2 @34956 has 49 MA's), (8, 34998), (10, 35004), (13, 35031), (14, 35043), (23, 35106), (25, 35118),

Gene: Gardann_42 Start: 34695, Stop: 34910, Start Num: 2

Candidate Starts for Gardann_42:

(Start: 2 @34695 has 49 MA's), (8, 34737), (10, 34743), (13, 34770), (14, 34782), (23, 34845), (25, 34857),

Gene: GuuelaD_42 Start: 34733, Stop: 34948, Start Num: 2

Candidate Starts for GuuelaD_42:

(Start: 2 @34733 has 49 MA's), (8, 34775), (10, 34781), (13, 34808), (14, 34820), (23, 34883), (25, 34895),

Gene: Ibrahim_37 Start: 30757, Stop: 30963, Start Num: 3

Candidate Starts for Ibrahim_37:

(Start: 3 @30757 has 6 MA's), (30, 30952),

Gene: Itos_41 Start: 33600, Stop: 33815, Start Num: 2

Candidate Starts for Itos_41:

(Start: 2 @33600 has 49 MA's), (8, 33642), (10, 33648), (13, 33675), (14, 33687), (23, 33750), (25, 33762),

Gene: Jobypre_40 Start: 34951, Stop: 35166, Start Num: 2

Candidate Starts for Jobypre_40:

(Start: 2 @34951 has 49 MA's), (9, 34996), (10, 34999), (20, 35077),

Gene: Jubie_40 Start: 34952, Stop: 35167, Start Num: 2

Candidate Starts for Jubie_40:

(Start: 2 @34952 has 49 MA's), (9, 34997), (10, 35000), (20, 35078),

Gene: Kahlid_42 Start: 34700, Stop: 34915, Start Num: 2

Candidate Starts for Kahlid_42:

(Start: 2 @34700 has 49 MA's), (8, 34742), (10, 34748), (13, 34775), (14, 34787), (23, 34850), (25, 34862),

Gene: Kingsolomon_40 Start: 34951, Stop: 35166, Start Num: 2

Candidate Starts for Kingsolomon_40:

(Start: 2 @34951 has 49 MA's), (9, 34996), (10, 34999), (20, 35077),

Gene: KirDoubleO7_38 Start: 34973, Stop: 35191, Start Num: 2
Candidate Starts for KirDoubleO7_38:
(Start: 2 @34973 has 49 MA's), (9, 35021), (10, 35024), (20, 35102),

Gene: Krypton555_40 Start: 34868, Stop: 35083, Start Num: 2
Candidate Starts for Krypton555_40:
(Start: 2 @34868 has 49 MA's), (9, 34913), (10, 34916), (20, 34994),

Gene: Lewan_42 Start: 34687, Stop: 34902, Start Num: 2
Candidate Starts for Lewan_42:
(Start: 2 @34687 has 49 MA's), (8, 34729), (10, 34735), (13, 34762), (14, 34774), (23, 34837), (25, 34849),

Gene: LilDestine_42 Start: 34692, Stop: 34907, Start Num: 2
Candidate Starts for LilDestine_42:
(Start: 2 @34692 has 49 MA's), (8, 34734), (10, 34740), (13, 34767), (14, 34779), (23, 34842), (25, 34854),

Gene: LiyuLake_40 Start: 34935, Stop: 35153, Start Num: 2
Candidate Starts for LiyuLake_40:
(Start: 2 @34935 has 49 MA's), (9, 34983), (10, 34986), (20, 35064),

Gene: Loadrie_42 Start: 34726, Stop: 34941, Start Num: 2
Candidate Starts for Loadrie_42:
(Start: 2 @34726 has 49 MA's), (8, 34768), (10, 34774), (13, 34801), (14, 34813), (23, 34876), (25, 34888),

Gene: Lolly9_40 Start: 34759, Stop: 34977, Start Num: 2
Candidate Starts for Lolly9_40:
(Start: 2 @34759 has 49 MA's), (9, 34807), (10, 34810), (20, 34888),

Gene: Lumos_40 Start: 34948, Stop: 35163, Start Num: 2
Candidate Starts for Lumos_40:
(Start: 2 @34948 has 49 MA's), (9, 34993), (10, 34996), (20, 35074),

Gene: Mendokysei_35 Start: 29852, Stop: 30055, Start Num: 4
Candidate Starts for Mendokysei_35:
(Start: 3 @29849 has 6 MA's), (Start: 4 @29852 has 1 MA's), (30, 30044),

Gene: Miley16_42 Start: 34694, Stop: 34909, Start Num: 2
Candidate Starts for Miley16_42:
(Start: 2 @34694 has 49 MA's), (8, 34736), (10, 34742), (13, 34769), (14, 34781), (23, 34844), (25, 34856),

Gene: MiniLon_40 Start: 34760, Stop: 34978, Start Num: 2
Candidate Starts for MiniLon_40:
(Start: 2 @34760 has 49 MA's), (9, 34808), (10, 34811), (20, 34889),

Gene: MiniMac_40 Start: 34757, Stop: 34975, Start Num: 2
Candidate Starts for MiniMac_40:
(Start: 2 @34757 has 49 MA's), (9, 34805), (10, 34808), (20, 34886),

Gene: MkaliMitinis3_42 Start: 34696, Stop: 34911, Start Num: 2
Candidate Starts for MkaliMitinis3_42:
(Start: 2 @34696 has 49 MA's), (8, 34738), (10, 34744), (13, 34771), (14, 34783), (23, 34846), (25, 34858),

Gene: Moostard_40 Start: 34953, Stop: 35168, Start Num: 2
Candidate Starts for Moostard_40:
(Start: 2 @34953 has 49 MA's), (9, 34998), (10, 35001), (20, 35079),

Gene: MsGreen_40 Start: 34951, Stop: 35166, Start Num: 2
Candidate Starts for MsGreen_40:
(Start: 2 @34951 has 49 MA's), (9, 34996), (10, 34999), (20, 35077),

Gene: Nairb_36 Start: 30311, Stop: 30517, Start Num: 3
Candidate Starts for Nairb_36:
(Start: 3 @30311 has 6 MA's), (30, 30506),

Gene: Nette_38 Start: 29858, Stop: 30064, Start Num: 3
Candidate Starts for Nette_38:
(Start: 3 @29858 has 6 MA's), (Start: 4 @29861 has 1 MA's), (30, 30053),

Gene: Netyap_42 Start: 34694, Stop: 34909, Start Num: 2
Candidate Starts for Netyap_42:
(Start: 2 @34694 has 49 MA's), (8, 34736), (10, 34742), (13, 34769), (14, 34781), (23, 34844), (25, 34856),

Gene: Nicholas_40 Start: 34951, Stop: 35166, Start Num: 2
Candidate Starts for Nicholas_40:
(Start: 2 @34951 has 49 MA's), (9, 34996), (10, 34999), (20, 35077),

Gene: Nicholasp3_42 Start: 34695, Stop: 34910, Start Num: 2
Candidate Starts for Nicholasp3_42:
(Start: 2 @34695 has 49 MA's), (8, 34737), (10, 34743), (13, 34770), (14, 34782), (23, 34845), (25, 34857),

Gene: Red305_40 Start: 34951, Stop: 35166, Start Num: 2
Candidate Starts for Red305_40:
(Start: 2 @34951 has 49 MA's), (9, 34996), (10, 34999), (20, 35077),

Gene: RonRayGun_37 Start: 30757, Stop: 30963, Start Num: 3
Candidate Starts for RonRayGun_37:
(Start: 3 @30757 has 6 MA's), (30, 30952),

Gene: Rossetti_42 Start: 34961, Stop: 35176, Start Num: 2
Candidate Starts for Rossetti_42:
(Start: 2 @34961 has 49 MA's), (8, 35003), (10, 35009), (23, 35111), (25, 35123),

Gene: Rumpelstiltskin_42 Start: 34961, Stop: 35173, Start Num: 2
Candidate Starts for Rumpelstiltskin_42:
(Start: 2 @34961 has 49 MA's), (8, 35003), (10, 35009), (13, 35036), (14, 35048), (23, 35111), (25, 35123),

Gene: Samty_40 Start: 34952, Stop: 35167, Start Num: 2

Candidate Starts for Samty_40:

(Start: 2 @34952 has 49 MA's), (9, 34997), (10, 35000), (20, 35078),

Gene: Snenia_40 Start: 34952, Stop: 35167, Start Num: 2

Candidate Starts for Snenia_40:

(Start: 2 @34952 has 49 MA's), (9, 34997), (10, 35000), (20, 35078),

Gene: ThetaBob_54 Start: 36886, Stop: 37065, Start Num: 6

Candidate Starts for ThetaBob_54:

(Start: 6 @36886 has 4 MA's), (11, 36925), (13, 36931), (16, 36961), (18, 36976), (19, 36979), (26, 37027), (27, 37039), (28, 37048), (29, 37054),

Gene: Toron_48 Start: 36637, Stop: 36816, Start Num: 6

Candidate Starts for Toron_48:

(Start: 6 @36637 has 4 MA's), (13, 36682), (16, 36712), (18, 36727), (19, 36730), (26, 36778), (27, 36790), (28, 36799),

Gene: Tourach_42 Start: 34709, Stop: 34924, Start Num: 2

Candidate Starts for Tourach_42:

(Start: 2 @34709 has 49 MA's), (8, 34751), (10, 34757), (12, 34781), (23, 34859), (25, 34871),

Gene: TriFive_40 Start: 34951, Stop: 35166, Start Num: 2

Candidate Starts for TriFive_40:

(Start: 2 @34951 has 49 MA's), (9, 34996), (10, 34999), (20, 35077),

Gene: Underpass_42 Start: 34695, Stop: 34910, Start Num: 2

Candidate Starts for Underpass_42:

(Start: 2 @34695 has 49 MA's), (8, 34737), (10, 34743), (13, 34770), (14, 34782), (23, 34845), (25, 34857),

Gene: Vetric_42 Start: 34701, Stop: 34916, Start Num: 2

Candidate Starts for Vetric_42:

(Start: 2 @34701 has 49 MA's), (8, 34743), (10, 34749), (13, 34776), (14, 34788), (23, 34851), (25, 34863),

Gene: Whirlwind_41 Start: 34710, Stop: 34925, Start Num: 2

Candidate Starts for Whirlwind_41:

(Start: 2 @34710 has 49 MA's), (9, 34755), (10, 34758), (20, 34836),

Gene: Whitty_37 Start: 30311, Stop: 30517, Start Num: 3

Candidate Starts for Whitty_37:

(Start: 3 @30311 has 6 MA's), (30, 30506),

Gene: Wigglewigggle_42 Start: 34727, Stop: 34942, Start Num: 2

Candidate Starts for Wigglewigggle_42:

(Start: 2 @34727 has 49 MA's), (8, 34769), (10, 34775), (13, 34802), (14, 34814), (23, 34877), (25, 34889),

Gene: Wilder_42 Start: 34700, Stop: 34915, Start Num: 2

Candidate Starts for Wilder_42:

(Start: 2 @34700 has 49 MA's), (8, 34742), (10, 34748), (13, 34775), (14, 34787), (23, 34850), (25, 34862),

Gene: Winky_42 Start: 34694, Stop: 34909, Start Num: 2

Candidate Starts for Winky_42:

(Start: 2 @34694 has 49 MA's), (8, 34736), (10, 34742), (13, 34769), (14, 34781), (23, 34844), (25, 34856),

Gene: Yoshi_61 Start: 38120, Stop: 38299, Start Num: 6

Candidate Starts for Yoshi_61:

(Start: 6 @38120 has 4 MA's), (11, 38159), (13, 38165), (16, 38195), (18, 38210), (19, 38213), (26, 38261), (28, 38282), (29, 38288),

Gene: Zakai_42 Start: 34952, Stop: 35167, Start Num: 2

Candidate Starts for Zakai_42:

(Start: 2 @34952 has 49 MA's), (8, 34994), (10, 35000), (13, 35027), (14, 35039), (23, 35102), (25, 35114),

Gene: ZenTime222_36 Start: 30311, Stop: 30517, Start Num: 3

Candidate Starts for ZenTime222_36:

(Start: 3 @30311 has 6 MA's), (30, 30506),