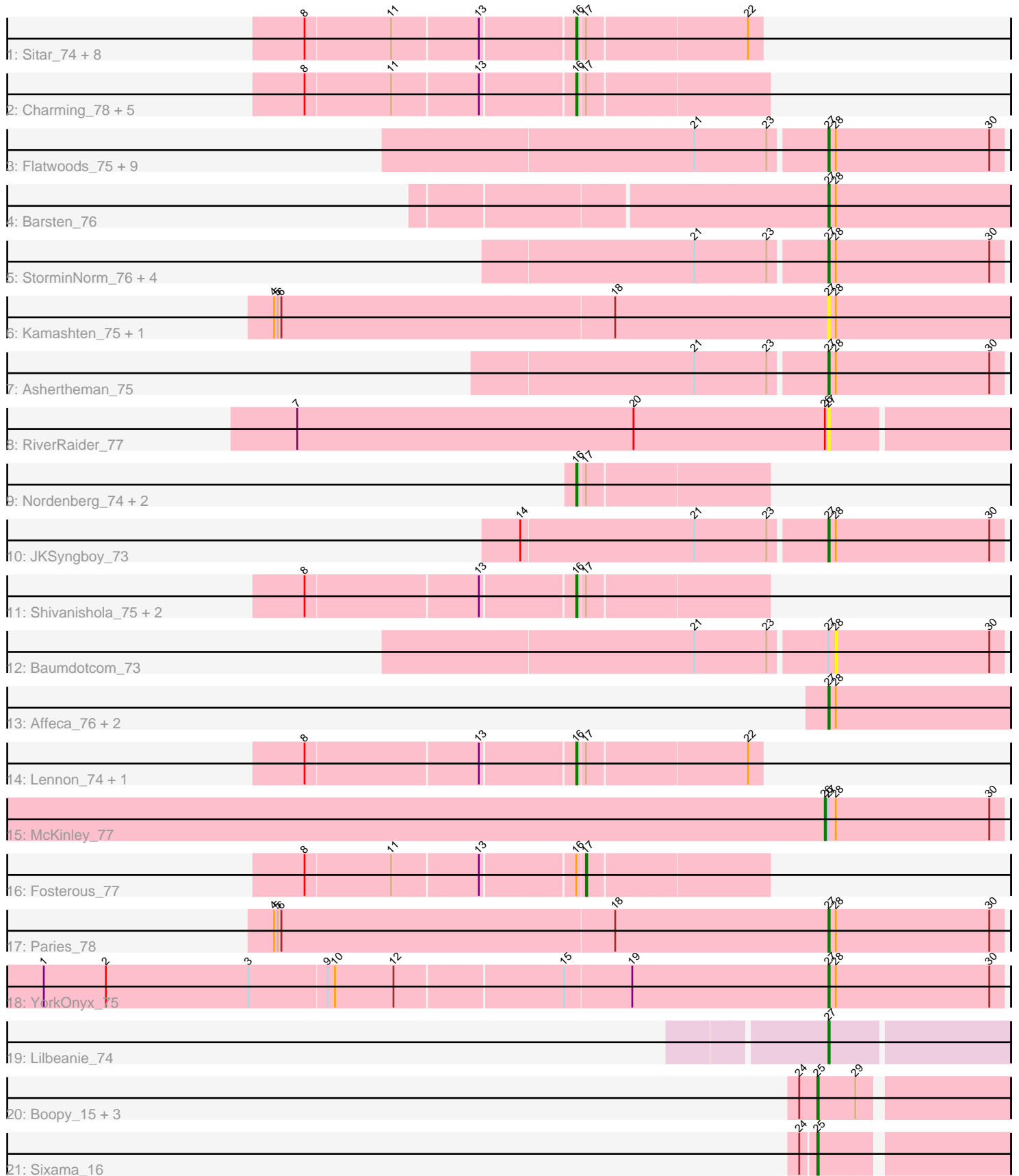


Pham 85702



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 85702 Report

This analysis was run 04/28/24 on database version 559.

Pham number 85702 has 58 members, 10 are drafts.

Phages represented in each track:

- Track 1 : Sitar_74, Jabberwocky_73, Keitabear_73, Bibwit_73, Stultus_70, Sanjuju_73, Angelicage_73, Fitzgerald_73, Sedona_73
- Track 2 : Charming_78, Brandonk123_79, Vivi2_79, BobBob_75, Rofo_75, Tangent_77
- Track 3 : Flatwoods_75, Gaea_76, Bizzy_76, SchottB_73, Saronaya_77, Gustavo_77, LilHam_69, Tangerine_76, Kroos_75, Kwobi_76
- Track 4 : Barsten_76
- Track 5 : StorminNorm_76, Ribeye_75, Baddon_73, Derg_73, Tycho_74
- Track 6 : Kamashten_75, Thing3_75
- Track 7 : Ashertheman_75
- Track 8 : RiverRaider_77
- Track 9 : Nordenberg_74, Kewpiedoll_74, Love_80
- Track 10 : JKSyngboy_73
- Track 11 : Shivanishola_75, Galadriel_75, MoontowerMania_74
- Track 12 : Baumdotcom_73
- Track 13 : Affeca_76, Geodirt_74, ChadMasterC_75
- Track 14 : Lennon_74, Ailee_72
- Track 15 : McKinley_77
- Track 16 : Fosterous_77
- Track 17 : Paries_78
- Track 18 : YorkOnyx_75
- Track 19 : Lilbeanie_74
- Track 20 : Boopy_15, Forza_15, BlueNGold_14, Mareelih_13
- Track 21 : Sixama_16

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

The start number called the most often in the published annotations is 16, it was called in 23 of the 48 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Ailee_72, Angelicage_73, Bibwit_73, BobBob_75, Brandonk123_79, Charming_78, Fitzgerald_73, Galadriel_75, Jabberwocky_73, Keitabear_73, Kewpiedoll_74, Lennon_74, Love_80, MoontowerMania_74, Nordenberg_74, Rofo_75, Sanjuju_73,

Sedona_73, Shivanishola_75, Sitar_74, Stultus_70, Tangent_77, Vivi2_79,

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

- Fosterous_77,

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

- Affeca_76, Ashertheman_75, Baddon_73, Barsten_76, Baumdotcom_73, Bizzy_76, BlueNGold_14, Boopy_15, ChadMasterC_75, Derg_73, Flatwoods_75, Forza_15, Gaea_76, Geodirt_74, Gustavo_77, JKSyngboy_73, Kamashten_75, Kroos_75, Kwobi_76, LilHam_69, Lilbeanie_74, Mareelih_13, McKinley_77, Paries_78, Ribeye_75, RiverRaider_77, Saronaya_77, SchottB_73, Sixama_16, StorminNorm_76, Tangerine_76, Thing3_75, Tycho_74, YorkOnyx_75,

Summary by start number:

Start 16:

- Found in 24 of 58 (41.4%) of genes in pham
- Manual Annotations of this start: 23 of 48
- Called 95.8% of time when present
- Phage (with cluster) where this start called: Ailee_72 (DE1), Angelicage_73 (DE1), Bibwit_73 (DE1), BobBob_75 (DE1), Brandonk123_79 (DE1), Charming_78 (DE1), Fitzgerald_73 (DE1), Galadriel_75 (DE1), Jabberwocky_73 (DE1), Keitabear_73 (DE1), Kewpiedoll_74 (DE1), Lennon_74 (DE1), Love_80 (DE1), MoontowerMania_74 (DE1), Nordenberg_74 (DE1), Rofo_75 (DE1), Sanjuju_73 (DE1), Sedona_73 (DE1), Shivanishola_75 (DE1), Sitar_74 (DE1), Stultus_70 (DE1), Tangent_77 (DE1), Vivi2_79 (DE1),

Start 17:

- Found in 24 of 58 (41.4%) of genes in pham
- Manual Annotations of this start: 1 of 48
- Called 4.2% of time when present
- Phage (with cluster) where this start called: Fosterous_77 (DE1),

Start 25:

- Found in 5 of 58 (8.6%) of genes in pham
- Manual Annotations of this start: 5 of 48
- Called 100.0% of time when present
- Phage (with cluster) where this start called: BlueNGold_14 (DS), Boopy_15 (DS), Forza_15 (DS), Mareelih_13 (DS), Sixama_16 (DS),

Start 26:

- Found in 2 of 58 (3.4%) of genes in pham
- Manual Annotations of this start: 1 of 48
- Called 50.0% of time when present
- Phage (with cluster) where this start called: McKinley_77 (DE1),

Start 27:

- Found in 29 of 58 (50.0%) of genes in pham
- Manual Annotations of this start: 18 of 48
- Called 93.1% of time when present
- Phage (with cluster) where this start called: Affeca_76 (DE1), Ashertheman_75 (DE1), Baddon_73 (DE1), Barsten_76 (DE1), Bizzy_76 (DE1), ChadMasterC_75 (DE1), Derg_73 (DE1), Flatwoods_75 (DE1), Gaea_76 (DE1), Geodirt_74 (DE1),

Gustavo_77 (DE1), JKSyngboy_73 (DE1), Kamashten_75 (DE1), Kroos_75 (DE1), Kwobi_76 (DE1), LilHam_69 (DE1), Lilbeanie_74 (DE5), Paries_78 (DE1), Ribeye_75 (DE1), RiverRaider_77 (DE1), Saronaya_77 (DE1), SchottB_73 (DE1), StorminNorm_76 (DE1), Tangerine_76 (DE1), Thing3_75 (DE1), Tycho_74 (DE1), YorkOnyx_75 (DE1),

Start 28:

- Found in 27 of 58 (46.6%) of genes in pham
- No Manual Annotations of this start.
- Called 3.7% of time when present
- Phage (with cluster) where this start called: Baumdotcom_73 (DE1),

Summary by clusters:

There are 3 clusters represented in this pham: DE1, DS, DE5,

Info for manual annotations of cluster DE1:

- Start number 16 was manually annotated 23 times for cluster DE1.
- Start number 17 was manually annotated 1 time for cluster DE1.
- Start number 26 was manually annotated 1 time for cluster DE1.
- Start number 27 was manually annotated 17 times for cluster DE1.

Info for manual annotations of cluster DE5:

- Start number 27 was manually annotated 1 time for cluster DE5.

Info for manual annotations of cluster DS:

- Start number 25 was manually annotated 5 times for cluster DS.

Gene Information:

Gene: Affeca_76 Start: 55675, Stop: 55824, Start Num: 27

Candidate Starts for Affeca_76:

(Start: 27 @55675 has 18 MA's), (28, 55681),

Gene: Ailee_72 Start: 54463, Stop: 54606, Start Num: 16

Candidate Starts for Ailee_72:

(8, 54256), (13, 54391), (Start: 16 @54463 has 23 MA's), (Start: 17 @54469 has 1 MA's), (22, 54595),

Gene: Angelicage_73 Start: 55402, Stop: 55545, Start Num: 16

Candidate Starts for Angelicage_73:

(8, 55195), (11, 55264), (13, 55330), (Start: 16 @55402 has 23 MA's), (Start: 17 @55408 has 1 MA's), (22, 55534),

Gene: Ashertheman_75 Start: 53992, Stop: 54135, Start Num: 27

Candidate Starts for Ashertheman_75:

(21, 53890), (23, 53947), (Start: 27 @53992 has 18 MA's), (28, 53998), (30, 54124),

Gene: Baddon_73 Start: 54647, Stop: 54790, Start Num: 27

Candidate Starts for Baddon_73:

(21, 54545), (23, 54602), (Start: 27 @54647 has 18 MA's), (28, 54653), (30, 54779),

Gene: Barsten_76 Start: 55435, Stop: 55584, Start Num: 27

Candidate Starts for Barsten_76:

(Start: 27 @55435 has 18 MA's), (28, 55441),

Gene: Baumdotcom_73 Start: 53969, Stop: 54106, Start Num: 28

Candidate Starts for Baumdotcom_73:

(21, 53861), (23, 53918), (Start: 27 @53963 has 18 MA's), (28, 53969), (30, 54095),

Gene: Bibwit_73 Start: 54104, Stop: 54247, Start Num: 16

Candidate Starts for Bibwit_73:

(8, 53897), (11, 53966), (13, 54032), (Start: 16 @54104 has 23 MA's), (Start: 17 @54110 has 1 MA's), (22, 54236),

Gene: Bizzy_76 Start: 53876, Stop: 54019, Start Num: 27

Candidate Starts for Bizzy_76:

(21, 53774), (23, 53831), (Start: 27 @53876 has 18 MA's), (28, 53882), (30, 54008),

Gene: BlueNGold_14 Start: 5863, Stop: 5717, Start Num: 25

Candidate Starts for BlueNGold_14:

(24, 5878), (Start: 25 @5863 has 5 MA's), (29, 5833),

Gene: BobBob_75 Start: 54638, Stop: 54787, Start Num: 16

Candidate Starts for BobBob_75:

(8, 54431), (11, 54500), (13, 54566), (Start: 16 @54638 has 23 MA's), (Start: 17 @54644 has 1 MA's),

Gene: Boopy_15 Start: 5874, Stop: 5728, Start Num: 25

Candidate Starts for Boopy_15:

(24, 5889), (Start: 25 @5874 has 5 MA's), (29, 5844),

Gene: Brandonk123_79 Start: 55107, Stop: 55256, Start Num: 16

Candidate Starts for Brandonk123_79:

(8, 54900), (11, 54969), (13, 55035), (Start: 16 @55107 has 23 MA's), (Start: 17 @55113 has 1 MA's),

Gene: ChadMasterC_75 Start: 56663, Stop: 56812, Start Num: 27

Candidate Starts for ChadMasterC_75:

(Start: 27 @56663 has 18 MA's), (28, 56669),

Gene: Charming_78 Start: 54389, Stop: 54538, Start Num: 16

Candidate Starts for Charming_78:

(8, 54182), (11, 54251), (13, 54317), (Start: 16 @54389 has 23 MA's), (Start: 17 @54395 has 1 MA's),

Gene: Derg_73 Start: 52679, Stop: 52822, Start Num: 27

Candidate Starts for Derg_73:

(21, 52577), (23, 52634), (Start: 27 @52679 has 18 MA's), (28, 52685), (30, 52811),

Gene: Fitzgerald_73 Start: 55250, Stop: 55393, Start Num: 16

Candidate Starts for Fitzgerald_73:

(8, 55043), (11, 55112), (13, 55178), (Start: 16 @55250 has 23 MA's), (Start: 17 @55256 has 1 MA's), (22, 55382),

Gene: Flatwoods_75 Start: 53185, Stop: 53328, Start Num: 27

Candidate Starts for Flatwoods_75:

(21, 53083), (23, 53140), (Start: 27 @53185 has 18 MA's), (28, 53191), (30, 53317),

Gene: Forza_15 Start: 5914, Stop: 5768, Start Num: 25

Candidate Starts for Forza_15:

(24, 5929), (Start: 25 @5914 has 5 MA's), (29, 5884),

Gene: Fosterous_77 Start: 55389, Stop: 55532, Start Num: 17

Candidate Starts for Fosterous_77:

(8, 55176), (11, 55245), (13, 55311), (Start: 16 @55383 has 23 MA's), (Start: 17 @55389 has 1 MA's),

Gene: Gaea_76 Start: 53772, Stop: 53915, Start Num: 27

Candidate Starts for Gaea_76:

(21, 53670), (23, 53727), (Start: 27 @53772 has 18 MA's), (28, 53778), (30, 53904),

Gene: Galadriel_75 Start: 55343, Stop: 55492, Start Num: 16

Candidate Starts for Galadriel_75:

(8, 55136), (13, 55271), (Start: 16 @55343 has 23 MA's), (Start: 17 @55349 has 1 MA's),

Gene: Geodirt_74 Start: 55912, Stop: 56061, Start Num: 27

Candidate Starts for Geodirt_74:

(Start: 27 @55912 has 18 MA's), (28, 55918),

Gene: Gustavo_77 Start: 54757, Stop: 54900, Start Num: 27

Candidate Starts for Gustavo_77:

(21, 54655), (23, 54712), (Start: 27 @54757 has 18 MA's), (28, 54763), (30, 54889),

Gene: JKSyngboy_73 Start: 54671, Stop: 54814, Start Num: 27

Candidate Starts for JKSyngboy_73:

(14, 54428), (21, 54569), (23, 54626), (Start: 27 @54671 has 18 MA's), (28, 54677), (30, 54803),

Gene: Jabberwocky_73 Start: 55476, Stop: 55619, Start Num: 16

Candidate Starts for Jabberwocky_73:

(8, 55269), (11, 55338), (13, 55404), (Start: 16 @55476 has 23 MA's), (Start: 17 @55482 has 1 MA's), (22, 55608),

Gene: Kamashten_75 Start: 55237, Stop: 55386, Start Num: 27

Candidate Starts for Kamashten_75:

(4, 54787), (5, 54790), (6, 54793), (18, 55063), (Start: 27 @55237 has 18 MA's), (28, 55243),

Gene: Keitabear_73 Start: 56025, Stop: 56168, Start Num: 16

Candidate Starts for Keitabear_73:

(8, 55818), (11, 55887), (13, 55953), (Start: 16 @56025 has 23 MA's), (Start: 17 @56031 has 1 MA's), (22, 56157),

Gene: Kewpiedoll_74 Start: 55575, Stop: 55724, Start Num: 16

Candidate Starts for Kewpiedoll_74:

(Start: 16 @55575 has 23 MA's), (Start: 17 @55581 has 1 MA's),

Gene: Kroos_75 Start: 54311, Stop: 54454, Start Num: 27

Candidate Starts for Kroos_75:

(21, 54209), (23, 54266), (Start: 27 @54311 has 18 MA's), (28, 54317), (30, 54443),

Gene: Kwobi_76 Start: 54576, Stop: 54719, Start Num: 27

Candidate Starts for Kwobi_76:

(21, 54474), (23, 54531), (Start: 27 @54576 has 18 MA's), (28, 54582), (30, 54708),

Gene: Lennon_74 Start: 56126, Stop: 56269, Start Num: 16

Candidate Starts for Lennon_74:

(8, 55919), (13, 56054), (Start: 16 @56126 has 23 MA's), (Start: 17 @56132 has 1 MA's), (22, 56258),

Gene: LilHam_69 Start: 51658, Stop: 51801, Start Num: 27

Candidate Starts for LilHam_69:

(21, 51556), (23, 51613), (Start: 27 @51658 has 18 MA's), (28, 51664), (30, 51790),

Gene: Lilbeanie_74 Start: 49448, Stop: 49591, Start Num: 27

Candidate Starts for Lilbeanie_74:

(Start: 27 @49448 has 18 MA's),

Gene: Love_80 Start: 56044, Stop: 56193, Start Num: 16

Candidate Starts for Love_80:

(Start: 16 @56044 has 23 MA's), (Start: 17 @56050 has 1 MA's),

Gene: Mareelih_13 Start: 5319, Stop: 5173, Start Num: 25

Candidate Starts for Mareelih_13:

(24, 5334), (Start: 25 @5319 has 5 MA's), (29, 5289),

Gene: McKinley_77 Start: 55186, Stop: 55332, Start Num: 26

Candidate Starts for McKinley_77:

(Start: 26 @55186 has 1 MA's), (Start: 27 @55189 has 18 MA's), (28, 55195), (30, 55321),

Gene: MoontowerMania_74 Start: 55822, Stop: 55971, Start Num: 16

Candidate Starts for MoontowerMania_74:

(8, 55615), (13, 55750), (Start: 16 @55822 has 23 MA's), (Start: 17 @55828 has 1 MA's),

Gene: Nordenberg_74 Start: 54225, Stop: 54374, Start Num: 16

Candidate Starts for Nordenberg_74:

(Start: 16 @54225 has 23 MA's), (Start: 17 @54231 has 1 MA's),

Gene: Paries_78 Start: 56255, Stop: 56398, Start Num: 27

Candidate Starts for Paries_78:

(4, 55805), (5, 55808), (6, 55811), (18, 56081), (Start: 27 @56255 has 18 MA's), (28, 56261), (30, 56387),

Gene: Ribeye_75 Start: 53918, Stop: 54061, Start Num: 27

Candidate Starts for Ribeye_75:

(21, 53816), (23, 53873), (Start: 27 @53918 has 18 MA's), (28, 53924), (30, 54050),

Gene: RiverRaider_77 Start: 53251, Stop: 53394, Start Num: 27

Candidate Starts for RiverRaider_77:

(7, 52816), (20, 53092), (Start: 26 @53248 has 1 MA's), (Start: 27 @53251 has 18 MA's),

Gene: Rofo_75 Start: 54965, Stop: 55114, Start Num: 16

Candidate Starts for Rofo_75:

(8, 54758), (11, 54827), (13, 54893), (Start: 16 @54965 has 23 MA's), (Start: 17 @54971 has 1 MA's),

Gene: Sanjuju_73 Start: 55340, Stop: 55483, Start Num: 16

Candidate Starts for Sanjuju_73:

(8, 55133), (11, 55202), (13, 55268), (Start: 16 @55340 has 23 MA's), (Start: 17 @55346 has 1 MA's), (22, 55472),

Gene: Saronaya_77 Start: 54757, Stop: 54900, Start Num: 27

Candidate Starts for Saronaya_77:

(21, 54655), (23, 54712), (Start: 27 @54757 has 18 MA's), (28, 54763), (30, 54889),

Gene: SchottB_73 Start: 54378, Stop: 54521, Start Num: 27

Candidate Starts for SchottB_73:

(21, 54276), (23, 54333), (Start: 27 @54378 has 18 MA's), (28, 54384), (30, 54510),

Gene: Sedona_73 Start: 55910, Stop: 56053, Start Num: 16

Candidate Starts for Sedona_73:

(8, 55703), (11, 55772), (13, 55838), (Start: 16 @55910 has 23 MA's), (Start: 17 @55916 has 1 MA's), (22, 56042),

Gene: Shivanishola_75 Start: 53690, Stop: 53839, Start Num: 16

Candidate Starts for Shivanishola_75:

(8, 53483), (13, 53618), (Start: 16 @53690 has 23 MA's), (Start: 17 @53696 has 1 MA's),

Gene: Sitar_74 Start: 55884, Stop: 56027, Start Num: 16

Candidate Starts for Sitar_74:

(8, 55677), (11, 55746), (13, 55812), (Start: 16 @55884 has 23 MA's), (Start: 17 @55890 has 1 MA's), (22, 56016),

Gene: Sixama_16 Start: 6090, Stop: 5944, Start Num: 25

Candidate Starts for Sixama_16:

(24, 6102), (Start: 25 @6090 has 5 MA's),

Gene: StorminNorm_76 Start: 54548, Stop: 54691, Start Num: 27

Candidate Starts for StorminNorm_76:

(21, 54446), (23, 54503), (Start: 27 @54548 has 18 MA's), (28, 54554), (30, 54680),

Gene: Stultus_70 Start: 54131, Stop: 54274, Start Num: 16

Candidate Starts for Stultus_70:

(8, 53924), (11, 53993), (13, 54059), (Start: 16 @54131 has 23 MA's), (Start: 17 @54137 has 1 MA's), (22, 54263),

Gene: Tangent_77 Start: 54670, Stop: 54819, Start Num: 16

Candidate Starts for Tangent_77:

(8, 54463), (11, 54532), (13, 54598), (Start: 16 @54670 has 23 MA's), (Start: 17 @54676 has 1 MA's),

Gene: Tangerine_76 Start: 54051, Stop: 54194, Start Num: 27

Candidate Starts for Tangerine_76:

(21, 53949), (23, 54006), (Start: 27 @54051 has 18 MA's), (28, 54057), (30, 54183),

Gene: Thing3_75 Start: 55237, Stop: 55386, Start Num: 27

Candidate Starts for Thing3_75:

(4, 54787), (5, 54790), (6, 54793), (18, 55063), (Start: 27 @55237 has 18 MA's), (28, 55243),

Gene: Tycho_74 Start: 53867, Stop: 54010, Start Num: 27

Candidate Starts for Tycho_74:

(21, 53765), (23, 53822), (Start: 27 @53867 has 18 MA's), (28, 53873), (30, 53999),

Gene: Vivi2_79 Start: 55726, Stop: 55875, Start Num: 16

Candidate Starts for Vivi2_79:

(8, 55519), (11, 55588), (13, 55654), (Start: 16 @55726 has 23 MA's), (Start: 17 @55732 has 1 MA's),

Gene: YorkOnyx_75 Start: 53895, Stop: 54038, Start Num: 27

Candidate Starts for YorkOnyx_75:

(1, 53268), (2, 53319), (3, 53436), (9, 53499), (10, 53505), (12, 53553), (15, 53682), (19, 53736),
(Start: 27 @53895 has 18 MA's), (28, 53901), (30, 54027),