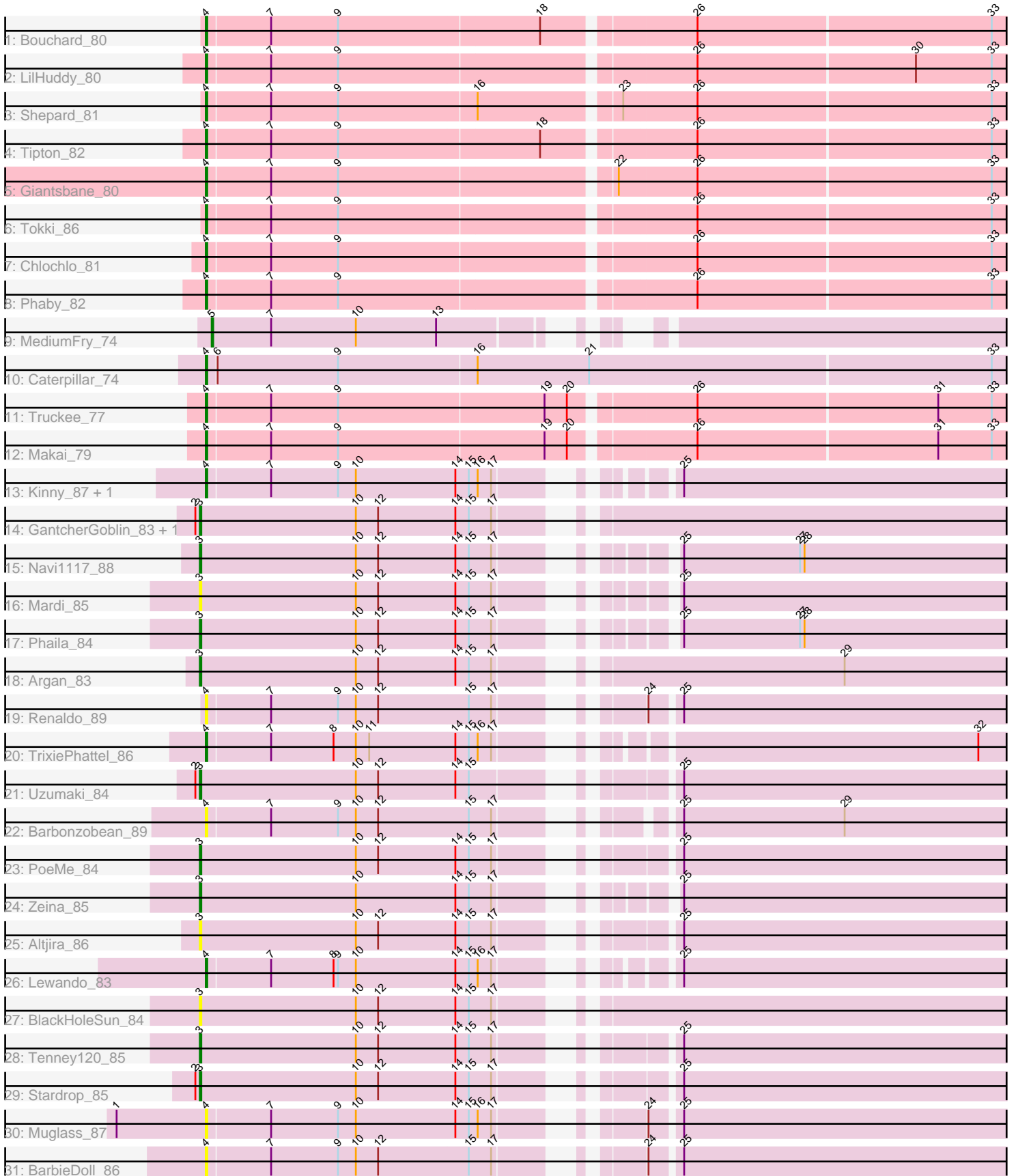


Zoomed Pham 311843



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 311843 Report

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

Pham number 311843 has 33 members, 7 are drafts.

Phages represented in each track:

- Track 1 : Bouchard_80
- Track 2 : LilHuddy_80
- Track 3 : Shepard_81
- Track 4 : Tipton_82
- Track 5 : Giantsbane_80
- Track 6 : Tokki_86
- Track 7 : Chlochlo_81
- Track 8 : Phaby_82
- Track 9 : MediumFry_74
- Track 10 : Caterpillar_74
- Track 11 : Truckee_77
- Track 12 : Makai_79
- Track 13 : Kinny_87, Biscute_84
- Track 14 : GantcherGoblin_83, KevinMinion_82
- Track 15 : Navi1117_88
- Track 16 : Mardi_85
- Track 17 : Phaila_84
- Track 18 : Argan_83
- Track 19 : Renaldo_89
- Track 20 : TrixiePhattel_86
- Track 21 : Uzumaki_84
- Track 22 : Barbonzobean_89
- Track 23 : PoeMe_84
- Track 24 : Zeina_85
- Track 25 : Altjira_86
- Track 26 : Lewando_83
- Track 27 : BlackHoleSun_84
- Track 28 : Tenney120_85
- Track 29 : Stardrop_85
- Track 30 : Muglass_87
- Track 31 : BarbieDoll_86

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

The start number called the most often in the published annotations is 4, it was called in 15 of the 26 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- BarbieDoll_86, Barbonzobean_89, Biscute_84, Bouchard_80, Caterpillar_74, Chlochlo_81, Giantsbane_80, Kinny_87, Lewando_83, LilHuddy_80, Makai_79, Muglass_87, Phaby_82, Renaldo_89, Shepard_81, Tipton_82, Tokki_86, TrixiePhattel_86, Truckee_77,

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

-

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

- Altjira_86, Argan_83, BlackHoleSun_84, GantcherGoblin_83, KevinMinion_82, Mardi_85, MediumFry_74, Navi1117_88, Phaila_84, PoeMe_84, Stardrop_85, Tenney120_85, Uzumaki_84, Zeina_85,

Summary by start number:

Start 3:

- Found in 13 of 33 (39.4%) of genes in pham
- Manual Annotations of this start: 10 of 26
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Altjira_86 (AU6), Argan_83 (AU6), BlackHoleSun_84 (AU6), GantcherGoblin_83 (AU6), KevinMinion_82 (AU6), Mardi_85 (AU6), Navi1117_88 (AU6), Phaila_84 (AU6), PoeMe_84 (AU6), Stardrop_85 (AU6), Tenney120_85 (AU6), Uzumaki_84 (AU6), Zeina_85 (AU6),

Start 4:

- Found in 19 of 33 (57.6%) of genes in pham
- Manual Annotations of this start: 15 of 26
- Called 100.0% of time when present
- Phage (with cluster) where this start called: BarbieDoll_86 (AU6), Barbonzobean_89 (AU6), Biscute_84 (AU6), Bouchard_80 (AU2), Caterpillar_74 (AU4), Chlochlo_81 (AU2), Giantsbane_80 (AU2), Kinny_87 (AU6), Lewando_83 (AU6), LilHuddy_80 (AU2), Makai_79 (AU5), Muglass_87 (AU6), Phaby_82 (AU2), Renaldo_89 (AU6), Shepard_81 (AU2), Tipton_82 (AU2), Tokki_86 (AU2), TrixiePhattel_86 (AU6), Truckee_77 (AU5),

Start 5:

- Found in 1 of 33 (3.0%) of genes in pham
- Manual Annotations of this start: 1 of 26
- Called 100.0% of time when present
- Phage (with cluster) where this start called: MediumFry_74 (AU4),

Summary by clusters:

There are 4 clusters represented in this pham: AU2, AU5, AU4, AU6,

Info for manual annotations of cluster AU2:

- Start number 4 was manually annotated 8 times for cluster AU2.

Info for manual annotations of cluster AU4:

- Start number 4 was manually annotated 1 time for cluster AU4.
- Start number 5 was manually annotated 1 time for cluster AU4.

Info for manual annotations of cluster AU5:

- Start number 4 was manually annotated 2 times for cluster AU5.

Info for manual annotations of cluster AU6:

- Start number 3 was manually annotated 10 times for cluster AU6.
- Start number 4 was manually annotated 4 times for cluster AU6.

Gene Information:

Gene: Altjira_86 Start: 50312, Stop: 51088, Start Num: 3

Candidate Starts for Altjira_86:

(Start: 3 @50312 has 10 MA's), (10, 50417), (12, 50432), (14, 50483), (15, 50492), (17, 50507), (25, 50591), (41, 50963), (47, 51020), (48, 51041), (49, 51047), (50, 51050),

Gene: Argan_83 Start: 49050, Stop: 49832, Start Num: 3

Candidate Starts for Argan_83:

(Start: 3 @49050 has 10 MA's), (10, 49155), (12, 49170), (14, 49221), (15, 49230), (17, 49245), (29, 49446), (47, 49767), (50, 49797),

Gene: BarbieDoll_86 Start: 50069, Stop: 50839, Start Num: 4

Candidate Starts for BarbieDoll_86:

(Start: 4 @50069 has 15 MA's), (7, 50111), (9, 50156), (10, 50168), (12, 50183), (15, 50243), (17, 50258), (24, 50324), (25, 50342), (38, 50666), (43, 50747), (44, 50750), (47, 50777), (50, 50807),

Gene: Barbonzobean_89 Start: 50586, Stop: 51359, Start Num: 4

Candidate Starts for Barbonzobean_89:

(Start: 4 @50586 has 15 MA's), (7, 50628), (9, 50673), (10, 50685), (12, 50700), (15, 50760), (17, 50775), (25, 50853), (29, 50961), (38, 51177), (40, 51222), (41, 51228), (42, 51231), (43, 51258), (44, 51261), (46, 51270), (47, 51288), (50, 51318),

Gene: Biscute_84 Start: 50270, Stop: 51040, Start Num: 4

Candidate Starts for Biscute_84:

(Start: 4 @50270 has 15 MA's), (7, 50312), (9, 50357), (10, 50369), (14, 50435), (15, 50444), (16, 50450), (17, 50459), (25, 50537), (38, 50861), (40, 50906), (41, 50912), (42, 50915), (43, 50942), (44, 50945), (47, 50972), (50, 51002),

Gene: BlackHoleSun_84 Start: 49126, Stop: 49905, Start Num: 3

Candidate Starts for BlackHoleSun_84:

(Start: 3 @49126 has 10 MA's), (10, 49231), (12, 49246), (14, 49297), (15, 49306), (17, 49321), (47, 49843), (48, 49864), (51, 49876),

Gene: Bouchard_80 Start: 50547, Stop: 51332, Start Num: 4

Candidate Starts for Bouchard_80:

(Start: 4 @50547 has 15 MA's), (7, 50589), (9, 50634), (18, 50766), (26, 50859), (33, 51054), (37, 51156), (39, 51183), (49, 51300), (51, 51309),

Gene: Caterpillar_74 Start: 49235, Stop: 50032, Start Num: 4

Candidate Starts for Caterpillar_74:

(Start: 4 @49235 has 15 MA's), (6, 49241), (9, 49322), (16, 49412), (21, 49487), (33, 49754), (36, 49814), (53, 50015),

Gene: Chlochlo_81 Start: 50066, Stop: 50851, Start Num: 4

Candidate Starts for Chlochlo_81:

(Start: 4 @50066 has 15 MA's), (7, 50108), (9, 50153), (26, 50378), (33, 50573), (37, 50675), (40, 50726), (49, 50819),

Gene: GantcherGoblin_83 Start: 49353, Stop: 50141, Start Num: 3

Candidate Starts for GantcherGoblin_83:

(2, 49350), (Start: 3 @49353 has 10 MA's), (10, 49458), (12, 49473), (14, 49524), (15, 49533), (17, 49548), (38, 49962), (41, 50013), (47, 50070), (48, 50091), (51, 50103),

Gene: Giantsbane_80 Start: 49112, Stop: 49894, Start Num: 4

Candidate Starts for Giantsbane_80:

(Start: 4 @49112 has 15 MA's), (7, 49154), (9, 49199), (22, 49373), (26, 49424), (33, 49619), (37, 49721), (39, 49748), (40, 49772), (51, 49874),

Gene: KevinMinion_82 Start: 50170, Stop: 50958, Start Num: 3

Candidate Starts for KevinMinion_82:

(2, 50167), (Start: 3 @50170 has 10 MA's), (10, 50275), (12, 50290), (14, 50341), (15, 50350), (17, 50365), (38, 50779), (41, 50830), (47, 50887), (48, 50908), (51, 50920),

Gene: Kinny_87 Start: 51097, Stop: 51870, Start Num: 4

Candidate Starts for Kinny_87:

(Start: 4 @51097 has 15 MA's), (7, 51139), (9, 51184), (10, 51196), (14, 51262), (15, 51271), (16, 51277), (17, 51286), (25, 51364), (38, 51688), (40, 51733), (41, 51739), (42, 51742), (43, 51769), (44, 51772), (47, 51799), (50, 51829),

Gene: Lewando_83 Start: 49507, Stop: 50271, Start Num: 4

Candidate Starts for Lewando_83:

(Start: 4 @49507 has 15 MA's), (7, 49549), (8, 49591), (9, 49594), (10, 49606), (14, 49672), (15, 49681), (16, 49687), (17, 49696), (25, 49774), (43, 50179), (44, 50182), (47, 50209), (50, 50239),

Gene: LilHuddy_80 Start: 50274, Stop: 51059, Start Num: 4

Candidate Starts for LilHuddy_80:

(Start: 4 @50274 has 15 MA's), (7, 50316), (9, 50361), (26, 50586), (30, 50730), (33, 50781), (37, 50883), (40, 50934), (49, 51027), (51, 51036),

Gene: Makai_79 Start: 50682, Stop: 51476, Start Num: 4

Candidate Starts for Makai_79:

(Start: 4 @50682 has 15 MA's), (7, 50724), (9, 50769), (19, 50904), (20, 50919), (26, 50994), (31, 51153), (33, 51189), (37, 51291), (49, 51435),

Gene: Mardi_85 Start: 49856, Stop: 50626, Start Num: 3

Candidate Starts for Mardi_85:

(Start: 3 @49856 has 10 MA's), (10, 49961), (12, 49976), (14, 50027), (15, 50036), (17, 50051), (25, 50129), (38, 50450), (47, 50558), (49, 50585), (50, 50588), (51, 50591),

Gene: MediumFry_74 Start: 49754, Stop: 50488, Start Num: 5

Candidate Starts for MediumFry_74:

(Start: 5 @49754 has 1 MA's), (7, 49793), (10, 49850), (13, 49904), (35, 50249), (45, 50405), (52, 50471),

Gene: Muglass_87 Start: 50509, Stop: 51288, Start Num: 4

Candidate Starts for Muglass_87:

(1, 50449), (Start: 4 @50509 has 15 MA's), (7, 50551), (9, 50596), (10, 50608), (14, 50674), (15, 50683), (16, 50689), (17, 50698), (24, 50764), (25, 50782), (38, 51106), (40, 51151), (41, 51157), (42, 51160), (43, 51187), (44, 51190), (46, 51199), (47, 51217), (50, 51247),

Gene: Navi1117_88 Start: 50924, Stop: 51691, Start Num: 3

Candidate Starts for Navi1117_88:

(Start: 3 @50924 has 10 MA's), (10, 51029), (12, 51044), (14, 51095), (15, 51104), (17, 51119), (25, 51197), (27, 51275), (28, 51278), (34, 51419), (41, 51569), (47, 51626), (50, 51656),

Gene: Phaby_82 Start: 50751, Stop: 51536, Start Num: 4

Candidate Starts for Phaby_82:

(Start: 4 @50751 has 15 MA's), (7, 50793), (9, 50838), (26, 51063), (33, 51258), (37, 51360), (40, 51411), (49, 51504), (51, 51513),

Gene: Phaila_84 Start: 49275, Stop: 50039, Start Num: 3

Candidate Starts for Phaila_84:

(Start: 3 @49275 has 10 MA's), (10, 49380), (12, 49395), (14, 49446), (15, 49455), (17, 49470), (25, 49548), (27, 49626), (28, 49629), (34, 49770), (38, 49869), (40, 49914), (41, 49920), (47, 49977), (50, 50007),

Gene: PoeMe_84 Start: 49848, Stop: 50621, Start Num: 3

Candidate Starts for PoeMe_84:

(Start: 3 @49848 has 10 MA's), (10, 49953), (12, 49968), (14, 50019), (15, 50028), (17, 50043), (25, 50127), (38, 50448), (47, 50556), (49, 50583), (50, 50586),

Gene: Renaldo_89 Start: 50063, Stop: 50839, Start Num: 4

Candidate Starts for Renaldo_89:

(Start: 4 @50063 has 15 MA's), (7, 50105), (9, 50150), (10, 50162), (12, 50177), (15, 50237), (17, 50252), (24, 50318), (25, 50336), (43, 50741), (44, 50744), (47, 50771), (50, 50801), (54, 50828),

Gene: Shepard_81 Start: 50143, Stop: 50928, Start Num: 4

Candidate Starts for Shepard_81:

(Start: 4 @50143 has 15 MA's), (7, 50185), (9, 50230), (16, 50320), (23, 50407), (26, 50455), (33, 50650), (37, 50752), (39, 50779), (40, 50803), (49, 50896),

Gene: Stardrop_85 Start: 50326, Stop: 51096, Start Num: 3

Candidate Starts for Stardrop_85:

(2, 50323), (Start: 3 @50326 has 10 MA's), (10, 50431), (12, 50446), (14, 50497), (15, 50506), (17, 50521), (25, 50605), (38, 50926), (41, 50977), (47, 51034), (49, 51061), (50, 51064),

Gene: Tenney120_85 Start: 49913, Stop: 50692, Start Num: 3

Candidate Starts for Tenney120_85:

(Start: 3 @49913 has 10 MA's), (10, 50018), (12, 50033), (14, 50084), (15, 50093), (17, 50108), (25, 50192), (38, 50513), (41, 50564), (47, 50621), (50, 50651),

Gene: Tipton_82 Start: 50627, Stop: 51412, Start Num: 4

Candidate Starts for Tipton_82:

(Start: 4 @50627 has 15 MA's), (7, 50669), (9, 50714), (18, 50846), (26, 50939), (33, 51134), (37, 51236), (39, 51263), (40, 51287), (49, 51380), (51, 51389),

Gene: Tokki_86 Start: 50556, Stop: 51341, Start Num: 4

Candidate Starts for Tokki_86:

(Start: 4 @50556 has 15 MA's), (7, 50598), (9, 50643), (26, 50868), (33, 51063), (37, 51165), (39, 51192), (40, 51216), (49, 51309),

Gene: TrixiePhattel_86 Start: 49378, Stop: 50142, Start Num: 4

Candidate Starts for TrixiePhattel_86:

(Start: 4 @49378 has 15 MA's), (7, 49420), (8, 49462), (10, 49477), (11, 49486), (14, 49543), (15, 49552), (16, 49558), (17, 49567), (32, 49843), (42, 50020), (44, 50050), (47, 50077), (50, 50107),

Gene: Truckee_77 Start: 50467, Stop: 51261, Start Num: 4

Candidate Starts for Truckee_77:

(Start: 4 @50467 has 15 MA's), (7, 50509), (9, 50554), (19, 50689), (20, 50704), (26, 50779), (31, 50938), (33, 50974), (37, 51076), (39, 51103), (40, 51127), (49, 51220),

Gene: Uzumaki_84 Start: 49321, Stop: 50100, Start Num: 3

Candidate Starts for Uzumaki_84:

(2, 49318), (Start: 3 @49321 has 10 MA's), (10, 49426), (12, 49441), (14, 49492), (15, 49501), (25, 49600), (41, 49972), (47, 50029), (50, 50059), (51, 50062),

Gene: Zeina_85 Start: 49204, Stop: 49971, Start Num: 3

Candidate Starts for Zeina_85:

(Start: 3 @49204 has 10 MA's), (10, 49309), (14, 49375), (15, 49384), (17, 49399), (25, 49477), (41, 49849), (47, 49906), (49, 49933), (50, 49936), (51, 49939),