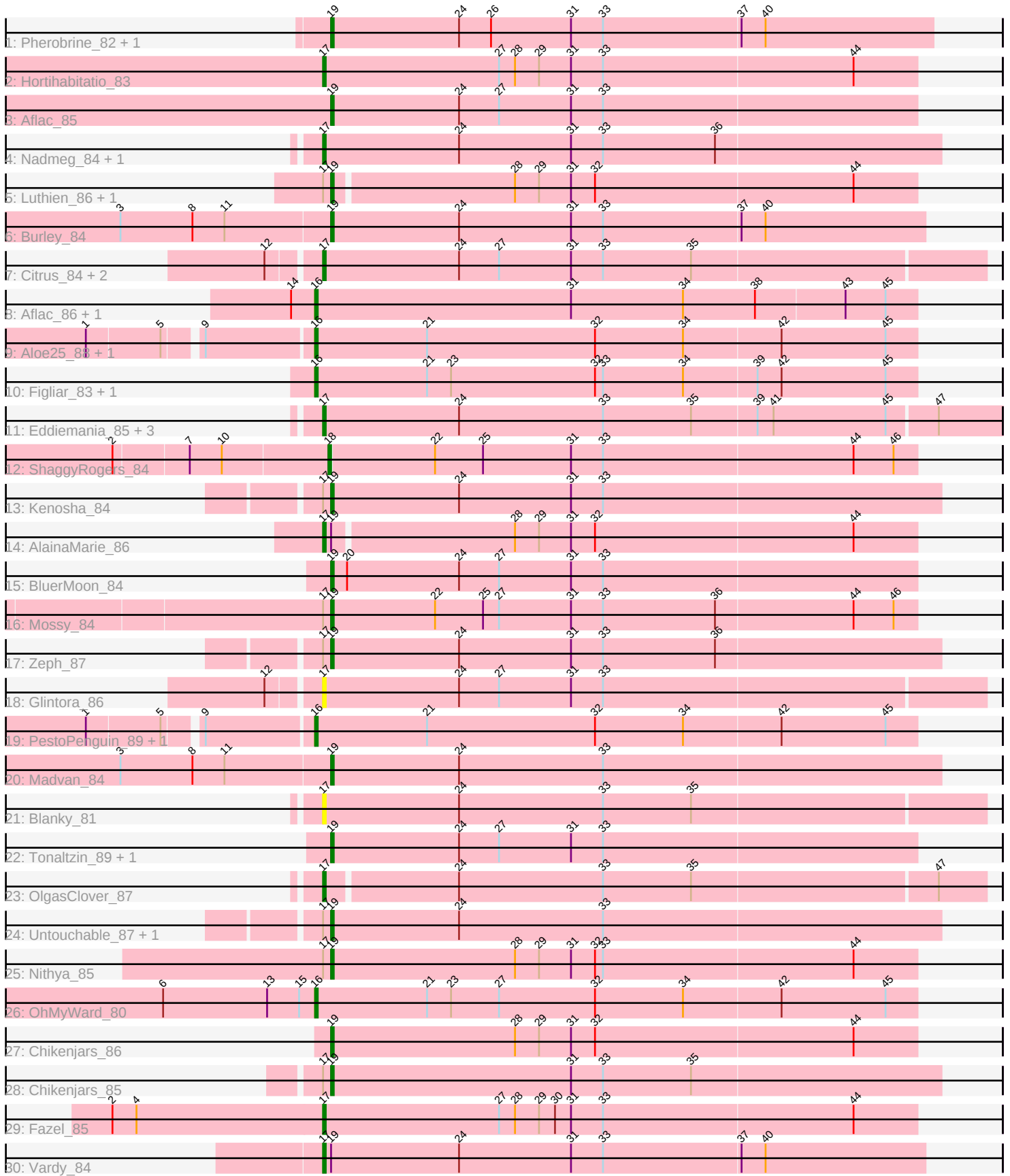


Pham 238860



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 238860 Report

This analysis was run 02/07/26 on database version 634.

Pham number 238860 has 44 members, 9 are drafts.

Phages represented in each track:

- Track 1 : Pherobrine_82, Mysticmoon_83
- Track 2 : Hortihabitatio_83
- Track 3 : Aflac_85
- Track 4 : Nadmeg_84, Hydrus_84
- Track 5 : Luthien_86, EndAve_87
- Track 6 : Burley_84
- Track 7 : Citrus_84, CWormy_83, Runhaar_83
- Track 8 : Aflac_86, Tonaltzin_90
- Track 9 : Aloe25_88, Gusicorn_86
- Track 10 : Figliar_83, Jodelie19_83
- Track 11 : Eddiemania_85, MajinBuu_85, Duffington_85, TenaciousP_85
- Track 12 : ShaggyRogers_84
- Track 13 : Kenosha_84
- Track 14 : AlainaMarie_86
- Track 15 : BluerMoon_84
- Track 16 : Mossy_84
- Track 17 : Zeph_87
- Track 18 : Glintora_86
- Track 19 : PestoPenguin_89, BetterYeti_84
- Track 20 : Madvan_84
- Track 21 : Blanky_81
- Track 22 : Tonaltzin_89, Rickmore_84
- Track 23 : OlgasClover_87
- Track 24 : Untouchable_87, Phepper_86
- Track 25 : Nithya_85
- Track 26 : OhMyWard_80
- Track 27 : Chickenjars_86
- Track 28 : Chickenjars_85
- Track 29 : Fazel_85
- Track 30 : Vardy_84

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

The start number called the most often in the published annotations is 19, it was called in 15 of the 35 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Aflac_85, BluerMoon_84, Burley_84, Chikenjars_85, Chikenjars_86, EndAve_87, Kenosha_84, Luthien_86, Madvan_84, Mossy_84, Mysticmoon_83, Nithya_85, Phepper_86, Pherobrine_82, Rickmore_84, Tonaltzin_89, Untouchable_87, Zeph_87,

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

- AlainaMarie_86, Vardy_84,

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

- Aflac_86, Aloe25_88, BetterYeti_84, Blanky_81, CWormy_83, Citrus_84, Duffington_85, Eddiemania_85, Fazel_85, Figliar_83, Glintora_86, Gusicorn_86, Hortihabitatio_83, Hydrus_84, Jodelie19_83, MajinBuu_85, Nadmeg_84, OhMyWard_80, OlgasClover_87, PestoPenguin_89, Runhaar_83, ShaggyRogers_84, TenaciousP_85, Tonaltzin_90,

Summary by start number:

Start 16:

- Found in 9 of 44 (20.5%) of genes in pham
- Manual Annotations of this start: 6 of 35
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Aflac_86 (DJ), Aloe25_88 (DJ), BetterYeti_84 (DJ), Figliar_83 (DJ), Gusicorn_86 (DJ), Jodelie19_83 (DJ), OhMyWard_80 (DJ), PestoPenguin_89 (DJ), Tonaltzin_90 (DJ),

Start 17:

- Found in 25 of 44 (56.8%) of genes in pham
- Manual Annotations of this start: 13 of 35
- Called 64.0% of time when present
- Phage (with cluster) where this start called: AlainaMarie_86 (DJ), Blanky_81 (DJ), CWormy_83 (DJ), Citrus_84 (DJ), Duffington_85 (DJ), Eddiemania_85 (DJ), Fazel_85 (DJ), Glintora_86 (DJ), Hortihabitatio_83 (DJ), Hydrus_84 (DJ), MajinBuu_85 (DJ), Nadmeg_84 (DJ), OlgasClover_87 (DJ), Runhaar_83 (DJ), TenaciousP_85 (DJ), Vardy_84 (DJ),

Start 18:

- Found in 1 of 44 (2.3%) of genes in pham
- Manual Annotations of this start: 1 of 35
- Called 100.0% of time when present
- Phage (with cluster) where this start called: ShaggyRogers_84 (DJ),

Start 19:

- Found in 20 of 44 (45.5%) of genes in pham
- Manual Annotations of this start: 15 of 35
- Called 90.0% of time when present
- Phage (with cluster) where this start called: Aflac_85 (DJ), BluerMoon_84 (DJ), Burley_84 (DJ), Chikenjars_85 (DJ), Chikenjars_86 (DJ), EndAve_87 (DJ), Kenosha_84 (DJ), Luthien_86 (DJ), Madvan_84 (DJ), Mossy_84 (DJ), Mysticmoon_83 (DJ), Nithya_85 (DJ), Phepper_86 (DJ), Pherobrine_82 (DJ), Rickmore_84 (DJ), Tonaltzin_89 (DJ), Untouchable_87 (DJ), Zeph_87 (DJ),

Summary by clusters:

There is one cluster represented in this pham: DJ

Info for manual annotations of cluster DJ:

- Start number 16 was manually annotated 6 times for cluster DJ.
- Start number 17 was manually annotated 13 times for cluster DJ.
- Start number 18 was manually annotated 1 time for cluster DJ.
- Start number 19 was manually annotated 15 times for cluster DJ.

Gene Information:

Gene: Aflac_85 Start: 54616, Stop: 54834, Start Num: 19

Candidate Starts for Aflac_85:

(Start: 19 @54616 has 15 MA's), (24, 54664), (27, 54679), (31, 54706), (33, 54718),

Gene: Aflac_86 Start: 54840, Stop: 55064, Start Num: 16

Candidate Starts for Aflac_86:

(14, 54831), (Start: 16 @54840 has 6 MA's), (31, 54936), (34, 54978), (38, 55005), (43, 55038), (45, 55053),

Gene: AlainaMarie_86 Start: 54900, Stop: 55118, Start Num: 17

Candidate Starts for AlainaMarie_86:

(Start: 17 @54900 has 13 MA's), (Start: 19 @54903 has 15 MA's), (28, 54969), (29, 54978), (31, 54990), (32, 54999), (44, 55095),

Gene: Aloe25_88 Start: 54053, Stop: 54277, Start Num: 16

Candidate Starts for Aloe25_88:

(1, 53975), (5, 54002), (9, 54014), (Start: 16 @54053 has 6 MA's), (21, 54095), (32, 54158), (34, 54191), (42, 54227), (45, 54266),

Gene: BetterYeti_84 Start: 54052, Stop: 54276, Start Num: 16

Candidate Starts for BetterYeti_84:

(1, 53974), (5, 54001), (9, 54013), (Start: 16 @54052 has 6 MA's), (21, 54094), (32, 54157), (34, 54190), (42, 54226), (45, 54265),

Gene: Blanky_81 Start: 54678, Stop: 54923, Start Num: 17

Candidate Starts for Blanky_81:

(Start: 17 @54678 has 13 MA's), (24, 54729), (33, 54783), (35, 54816),

Gene: BluerMoon_84 Start: 54687, Stop: 54905, Start Num: 19

Candidate Starts for BluerMoon_84:

(Start: 19 @54687 has 15 MA's), (20, 54693), (24, 54735), (27, 54750), (31, 54777), (33, 54789),

Gene: Burley_84 Start: 53706, Stop: 53927, Start Num: 19

Candidate Starts for Burley_84:

(3, 53628), (8, 53655), (11, 53667), (Start: 19 @53706 has 15 MA's), (24, 53754), (31, 53796), (33, 53808), (37, 53859), (40, 53868),

Gene: CWormy_83 Start: 53634, Stop: 53879, Start Num: 17

Candidate Starts for CWormy_83:

(12, 53616), (Start: 17 @53634 has 13 MA's), (24, 53685), (27, 53700), (31, 53727), (33, 53739), (35, 53772),

Gene: Chikenjars_86 Start: 55128, Stop: 55346, Start Num: 19

Candidate Starts for Chikenjars_86:

(Start: 19 @55128 has 15 MA's), (28, 55197), (29, 55206), (31, 55218), (32, 55227), (44, 55323),

Gene: Chikenjars_85 Start: 54894, Stop: 55121, Start Num: 19

Candidate Starts for Chikenjars_85:

(Start: 17 @54891 has 13 MA's), (Start: 19 @54894 has 15 MA's), (31, 54984), (33, 54996), (35, 55029),

Gene: Citrus_84 Start: 54695, Stop: 54940, Start Num: 17

Candidate Starts for Citrus_84:

(12, 54677), (Start: 17 @54695 has 13 MA's), (24, 54746), (27, 54761), (31, 54788), (33, 54800), (35, 54833),

Gene: Duffington_85 Start: 54606, Stop: 54857, Start Num: 17

Candidate Starts for Duffington_85:

(Start: 17 @54606 has 13 MA's), (24, 54657), (33, 54711), (35, 54744), (39, 54768), (41, 54774), (45, 54816), (47, 54834),

Gene: Eddiemania_85 Start: 54725, Stop: 54976, Start Num: 17

Candidate Starts for Eddiemania_85:

(Start: 17 @54725 has 13 MA's), (24, 54776), (33, 54830), (35, 54863), (39, 54887), (41, 54893), (45, 54935), (47, 54953),

Gene: EndAve_87 Start: 54841, Stop: 55056, Start Num: 19

Candidate Starts for EndAve_87:

(Start: 17 @54838 has 13 MA's), (Start: 19 @54841 has 15 MA's), (28, 54907), (29, 54916), (31, 54928), (32, 54937), (44, 55033),

Gene: Fazel_85 Start: 53442, Stop: 53663, Start Num: 17

Candidate Starts for Fazel_85:

(2, 53370), (4, 53379), (Start: 17 @53442 has 13 MA's), (27, 53508), (28, 53514), (29, 53523), (30, 53529), (31, 53535), (33, 53547), (44, 53640),

Gene: Figliar_83 Start: 54424, Stop: 54648, Start Num: 16

Candidate Starts for Figliar_83:

(Start: 16 @54424 has 6 MA's), (21, 54466), (23, 54475), (32, 54529), (33, 54532), (34, 54562), (39, 54589), (42, 54598), (45, 54637),

Gene: Glintora_86 Start: 54804, Stop: 55049, Start Num: 17

Candidate Starts for Glintora_86:

(12, 54786), (Start: 17 @54804 has 13 MA's), (24, 54855), (27, 54870), (31, 54897), (33, 54909),

Gene: Gusicorn_86 Start: 54053, Stop: 54277, Start Num: 16

Candidate Starts for Gusicorn_86:

(1, 53975), (5, 54002), (9, 54014), (Start: 16 @54053 has 6 MA's), (21, 54095), (32, 54158), (34, 54191), (42, 54227), (45, 54266),

Gene: Hortihabitatio_83 Start: 53488, Stop: 53709, Start Num: 17

Candidate Starts for Hortihabitatio_83:

(Start: 17 @53488 has 13 MA's), (27, 53554), (28, 53560), (29, 53569), (31, 53581), (33, 53593), (44, 53686),

Gene: Hydrus_84 Start: 54426, Stop: 54656, Start Num: 17

Candidate Starts for Hydrus_84:

(Start: 17 @54426 has 13 MA's), (24, 54477), (31, 54519), (33, 54531), (36, 54573),

Gene: Jodelie19_83 Start: 55591, Stop: 55815, Start Num: 16

Candidate Starts for Jodelie19_83:

(Start: 16 @55591 has 6 MA's), (21, 55633), (23, 55642), (32, 55696), (33, 55699), (34, 55729), (39, 55756), (42, 55765), (45, 55804),

Gene: Kenosha_84 Start: 54511, Stop: 54738, Start Num: 19

Candidate Starts for Kenosha_84:

(Start: 17 @54508 has 13 MA's), (Start: 19 @54511 has 15 MA's), (24, 54559), (31, 54601), (33, 54613),

Gene: Luthien_86 Start: 54846, Stop: 55061, Start Num: 19

Candidate Starts for Luthien_86:

(Start: 17 @54843 has 13 MA's), (Start: 19 @54846 has 15 MA's), (28, 54912), (29, 54921), (31, 54933), (32, 54942), (44, 55038),

Gene: Madvan_84 Start: 53741, Stop: 53968, Start Num: 19

Candidate Starts for Madvan_84:

(3, 53663), (8, 53690), (11, 53702), (Start: 19 @53741 has 15 MA's), (24, 53789), (33, 53843),

Gene: MajinBuu_85 Start: 54788, Stop: 55039, Start Num: 17

Candidate Starts for MajinBuu_85:

(Start: 17 @54788 has 13 MA's), (24, 54839), (33, 54893), (35, 54926), (39, 54950), (41, 54956), (45, 54998), (47, 55016),

Gene: Mossy_84 Start: 54808, Stop: 55026, Start Num: 19

Candidate Starts for Mossy_84:

(Start: 17 @54805 has 13 MA's), (Start: 19 @54808 has 15 MA's), (22, 54847), (25, 54865), (27, 54871), (31, 54898), (33, 54910), (36, 54952), (44, 55003), (46, 55018),

Gene: Mysticmoon_83 Start: 53604, Stop: 53828, Start Num: 19

Candidate Starts for Mysticmoon_83:

(Start: 19 @53604 has 15 MA's), (24, 53652), (26, 53664), (31, 53694), (33, 53706), (37, 53757), (40, 53766),

Gene: Nadmeg_84 Start: 54723, Stop: 54953, Start Num: 17

Candidate Starts for Nadmeg_84:

(Start: 17 @54723 has 13 MA's), (24, 54774), (31, 54816), (33, 54828), (36, 54870),

Gene: Nithya_85 Start: 54677, Stop: 54895, Start Num: 19

Candidate Starts for Nithya_85:

(Start: 17 @54674 has 13 MA's), (Start: 19 @54677 has 15 MA's), (28, 54746), (29, 54755), (31, 54767), (32, 54776), (33, 54779), (44, 54872),

Gene: OhMyWard_80 Start: 54597, Stop: 54821, Start Num: 16

Candidate Starts for OhMyWard_80:

(6, 54540), (13, 54579), (15, 54591), (Start: 16 @54597 has 6 MA's), (21, 54639), (23, 54648), (27, 54666), (32, 54702), (34, 54735), (42, 54771), (45, 54810),

Gene: OlgasClover_87 Start: 55488, Stop: 55730, Start Num: 17

Candidate Starts for OlgasClover_87:

(Start: 17 @55488 has 13 MA's), (24, 55536), (33, 55590), (35, 55623), (47, 55713),

Gene: PestoPenguin_89 Start: 54053, Stop: 54277, Start Num: 16

Candidate Starts for PestoPenguin_89:

(1, 53975), (5, 54002), (9, 54014), (Start: 16 @54053 has 6 MA's), (21, 54095), (32, 54158), (34, 54191), (42, 54227), (45, 54266),

Gene: Phepper_86 Start: 54213, Stop: 54440, Start Num: 19

Candidate Starts for Phepper_86:

(Start: 17 @54210 has 13 MA's), (Start: 19 @54213 has 15 MA's), (24, 54261), (33, 54315),

Gene: Pherobrine_82 Start: 53659, Stop: 53883, Start Num: 19

Candidate Starts for Pherobrine_82:

(Start: 19 @53659 has 15 MA's), (24, 53707), (26, 53719), (31, 53749), (33, 53761), (37, 53812), (40, 53821),

Gene: Rickmore_84 Start: 53515, Stop: 53733, Start Num: 19

Candidate Starts for Rickmore_84:

(Start: 19 @53515 has 15 MA's), (24, 53563), (27, 53578), (31, 53605), (33, 53617),

Gene: Runhaar_83 Start: 53800, Stop: 54045, Start Num: 17

Candidate Starts for Runhaar_83:

(12, 53782), (Start: 17 @53800 has 13 MA's), (24, 53851), (27, 53866), (31, 53893), (33, 53905), (35, 53938),

Gene: ShaggyRogers_84 Start: 53795, Stop: 54013, Start Num: 18

Candidate Starts for ShaggyRogers_84:

(2, 53717), (7, 53744), (10, 53756), (Start: 18 @53795 has 1 MA's), (22, 53834), (25, 53852), (31, 53885), (33, 53897), (44, 53990), (46, 54005),

Gene: TenaciousP_85 Start: 55540, Stop: 55791, Start Num: 17

Candidate Starts for TenaciousP_85:

(Start: 17 @55540 has 13 MA's), (24, 55591), (33, 55645), (35, 55678), (39, 55702), (41, 55708), (45, 55750), (47, 55768),

Gene: Tonaltzin_90 Start: 54596, Stop: 54820, Start Num: 16

Candidate Starts for Tonaltzin_90:

(14, 54587), (Start: 16 @54596 has 6 MA's), (31, 54692), (34, 54734), (38, 54761), (43, 54794), (45, 54809),

Gene: Tonaltzin_89 Start: 54372, Stop: 54590, Start Num: 19

Candidate Starts for Tonaltzin_89:

(Start: 19 @54372 has 15 MA's), (24, 54420), (27, 54435), (31, 54462), (33, 54474),

Gene: Untouchable_87 Start: 55210, Stop: 55437, Start Num: 19

Candidate Starts for Untouchable_87:

(Start: 17 @55207 has 13 MA's), (Start: 19 @55210 has 15 MA's), (24, 55258), (33, 55312),

Gene: Vardy_84 Start: 53737, Stop: 53961, Start Num: 17

Candidate Starts for Vardy_84:

(Start: 17 @53737 has 13 MA's), (Start: 19 @53740 has 15 MA's), (24, 53788), (31, 53830), (33, 53842), (37, 53893), (40, 53902),

Gene: Zeph_87 Start: 55014, Stop: 55241, Start Num: 19

Candidate Starts for Zeph_87:

(Start: 17 @55011 has 13 MA's), (Start: 19 @55014 has 15 MA's), (24, 55062), (31, 55104), (33, 55116), (36, 55158),