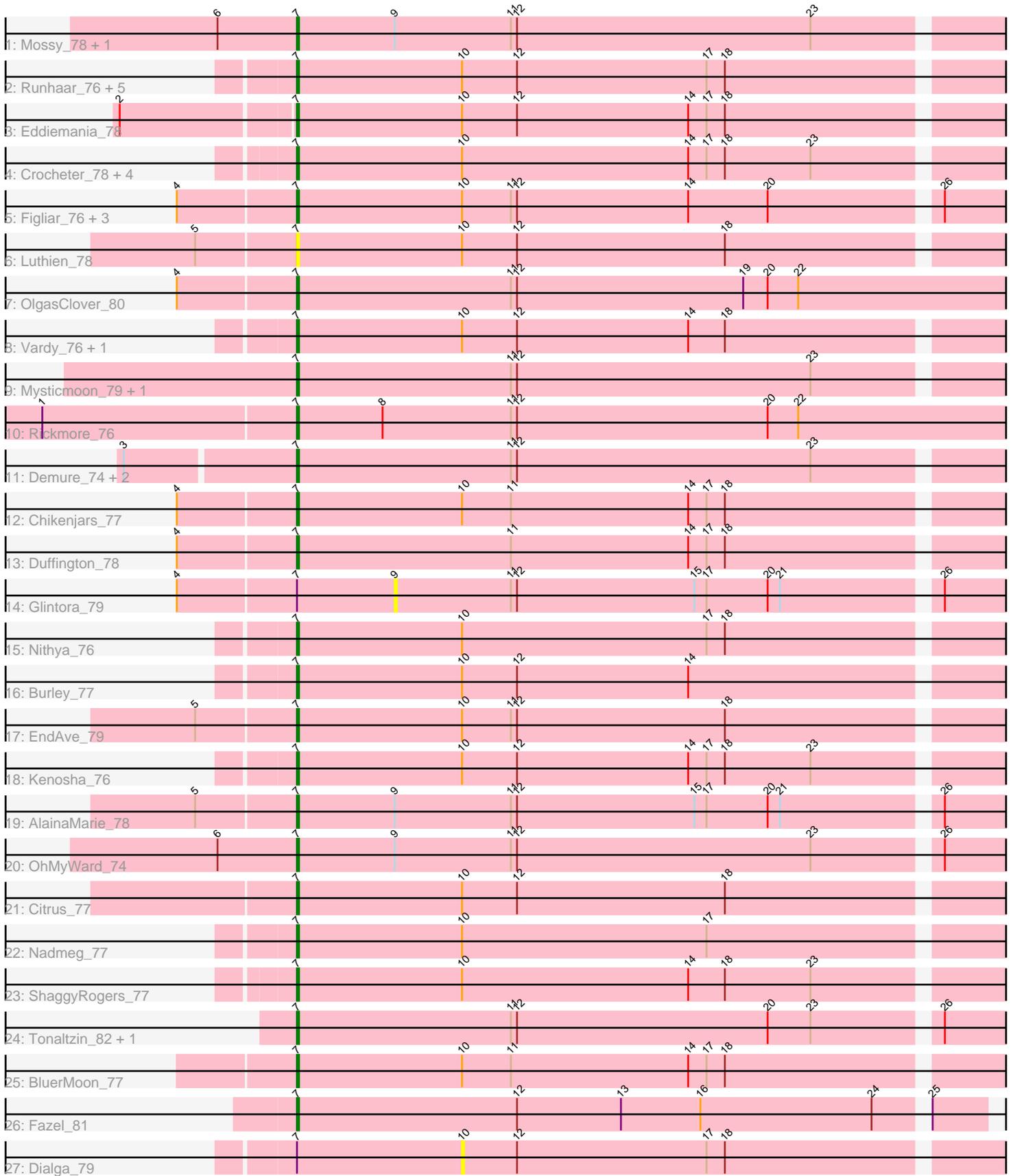


Pham 291290



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 291290 Report

This analysis was run 03/28/26 on database version 641.

Pham number 291290 has 45 members, 11 are drafts.

Phages represented in each track:

- Track 1 : Mossy_78, Blanky_75
- Track 2 : Runhaar_76, CWormy_76, Phepper_78, ArtetaBall_77, Untouchable_79, Madvan_77
- Track 3 : Eddiemania_78
- Track 4 : Crocheter_78, Aloe25_81, BetterYeti_77, Gusicorn_79, PestoPenguin_82
- Track 5 : Figliar_76, TenaciousP_78, Jodelie19_76, MajinBuu_78
- Track 6 : Luthien_78
- Track 7 : OlgasClover_80
- Track 8 : Vardy_76, Zeph_79
- Track 9 : Mysticmoon_79, Pherobrine_78
- Track 10 : Rickmore_76
- Track 11 : Demure_74, Hydrus_77, Arataki_76
- Track 12 : Chikenjars_77
- Track 13 : Duffington_78
- Track 14 : Glintora_79
- Track 15 : Nithya_76
- Track 16 : Burley_77
- Track 17 : EndAve_79
- Track 18 : Kenosha_76
- Track 19 : AlainaMarie_78
- Track 20 : OhMyWard_74
- Track 21 : Citrus_77
- Track 22 : Nadmeg_77
- Track 23 : ShaggyRogers_77
- Track 24 : Tonaltzin_82, Aflac_78
- Track 25 : BluerMoon_77
- Track 26 : Fazel_81
- Track 27 : Dialga_79

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

The start number called the most often in the published annotations is 7, it was called in 34 of the 34 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Aflac_78, AlainaMarie_78, Aloe25_81, Arataki_76, ArtetaBall_77, BetterYeti_77, Blanky_75, BluerMoon_77, Burley_77, CWormy_76, Chikenjars_77, Citrus_77, Crocheter_78, Demure_74, Duffington_78, Eddiemania_78, EndAve_79, Fazel_81, Figliar_76, Gusicorn_79, Hydrus_77, Jodelie19_76, Kenosha_76, Luthien_78, Madvan_77, MajinBuu_78, Mossy_78, Mysticmoon_79, Nadmeg_77, Nithya_76, OhMyWard_74, OlgasClover_80, PestoPenguin_82, Phepper_78, Pherobrine_78, Rickmore_76, Runhaar_76, ShaggyRogers_77, TenaciousP_78, Tonaltzin_82, Untouchable_79, Vardy_76, Zeph_79,

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

- Dialga_79, Glintora_79,

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

-

Summary by start number:

Start 7:

- Found in 45 of 45 (100.0%) of genes in pham
- Manual Annotations of this start: 34 of 34
- Called 95.6% of time when present
- Phage (with cluster) where this start called: Aflac_78 (DJ), AlainaMarie_78 (DJ), Aloe25_81 (DJ), Arataki_76 (DJ), ArtetaBall_77 (DJ), BetterYeti_77 (DJ), Blanky_75 (DJ), BluerMoon_77 (DJ), Burley_77 (DJ), CWormy_76 (DJ), Chikenjars_77 (DJ), Citrus_77 (DJ), Crocheter_78 (DJ), Demure_74 (DJ), Duffington_78 (DJ), Eddiemania_78 (DJ), EndAve_79 (DJ), Fazel_81 (DJ), Figliar_76 (DJ), Gusicorn_79 (DJ), Hydrus_77 (DJ), Jodelie19_76 (DJ), Kenosha_76 (DJ), Luthien_78 (DJ), Madvan_77 (DJ), MajinBuu_78 (DJ), Mossy_78 (DJ), Mysticmoon_79 (DJ), Nadmeg_77 (DJ), Nithya_76 (DJ), OhMyWard_74 (DJ), OlgasClover_80 (DJ), PestoPenguin_82 (DJ), Phepper_78 (DJ), Pherobrine_78 (DJ), Rickmore_76 (DJ), Runhaar_76 (DJ), ShaggyRogers_77 (DJ), TenaciousP_78 (DJ), Tonaltzin_82 (DJ), Untouchable_79 (DJ), Vardy_76 (DJ), Zeph_79 (DJ),

Start 9:

- Found in 5 of 45 (11.1%) of genes in pham
- No Manual Annotations of this start.
- Called 20.0% of time when present
- Phage (with cluster) where this start called: Glintora_79 (DJ),

Start 10:

- Found in 29 of 45 (64.4%) of genes in pham
- No Manual Annotations of this start.
- Called 3.4% of time when present
- Phage (with cluster) where this start called: Dialga_79 (DJ),

Summary by clusters:

There is one cluster represented in this pham: DJ

Info for manual annotations of cluster DJ:

- Start number 7 was manually annotated 34 times for cluster DJ.

Gene Information:

Gene: Aflac_78 Start: 51861, Stop: 52208, Start Num: 7

Candidate Starts for Aflac_78:

(Start: 7 @51861 has 34 MA's), (11, 51966), (12, 51969), (20, 52092), (23, 52113), (26, 52170),

Gene: AlainaMarie_78 Start: 51906, Stop: 52253, Start Num: 7

Candidate Starts for AlainaMarie_78:

(5, 51858), (Start: 7 @51906 has 34 MA's), (9, 51954), (11, 52011), (12, 52014), (15, 52101), (17, 52107), (20, 52137), (21, 52143), (26, 52215),

Gene: Aloe25_81 Start: 51286, Stop: 51633, Start Num: 7

Candidate Starts for Aloe25_81:

(Start: 7 @51286 has 34 MA's), (10, 51367), (14, 51478), (17, 51487), (18, 51496), (23, 51538),

Gene: Arataki_76 Start: 50900, Stop: 51247, Start Num: 7

Candidate Starts for Arataki_76:

(3, 50819), (Start: 7 @50900 has 34 MA's), (11, 51005), (12, 51008), (23, 51152),

Gene: ArtetaBall_77 Start: 51462, Stop: 51809, Start Num: 7

Candidate Starts for ArtetaBall_77:

(Start: 7 @51462 has 34 MA's), (10, 51543), (12, 51570), (17, 51663), (18, 51672),

Gene: BetterYeti_77 Start: 51285, Stop: 51632, Start Num: 7

Candidate Starts for BetterYeti_77:

(Start: 7 @51285 has 34 MA's), (10, 51366), (14, 51477), (17, 51486), (18, 51495), (23, 51537),

Gene: Blanky_75 Start: 52347, Stop: 52694, Start Num: 7

Candidate Starts for Blanky_75:

(6, 52308), (Start: 7 @52347 has 34 MA's), (9, 52395), (11, 52452), (12, 52455), (23, 52599),

Gene: BluerMoon_77 Start: 51813, Stop: 52160, Start Num: 7

Candidate Starts for BluerMoon_77:

(Start: 7 @51813 has 34 MA's), (10, 51894), (11, 51918), (14, 52005), (17, 52014), (18, 52023),

Gene: Burley_77 Start: 50918, Stop: 51265, Start Num: 7

Candidate Starts for Burley_77:

(Start: 7 @50918 has 34 MA's), (10, 50999), (12, 51026), (14, 51110),

Gene: CWormy_76 Start: 50879, Stop: 51226, Start Num: 7

Candidate Starts for CWormy_76:

(Start: 7 @50879 has 34 MA's), (10, 50960), (12, 50987), (17, 51080), (18, 51089),

Gene: Chikenjars_77 Start: 51872, Stop: 52219, Start Num: 7

Candidate Starts for Chikenjars_77:

(4, 51815), (Start: 7 @51872 has 34 MA's), (10, 51953), (11, 51977), (14, 52064), (17, 52073), (18, 52082),

Gene: Citrus_77 Start: 51922, Stop: 52269, Start Num: 7

Candidate Starts for Citrus_77:

(Start: 7 @51922 has 34 MA's), (10, 52003), (12, 52030), (18, 52132),

Gene: Crocheter_78 Start: 51379, Stop: 51726, Start Num: 7
Candidate Starts for Crocheter_78:
(Start: 7 @51379 has 34 MA's), (10, 51460), (14, 51571), (17, 51580), (18, 51589), (23, 51631),

Gene: Demure_74 Start: 50900, Stop: 51247, Start Num: 7
Candidate Starts for Demure_74:
(3, 50819), (Start: 7 @50900 has 34 MA's), (11, 51005), (12, 51008), (23, 51152),

Gene: Dialga_79 Start: 51562, Stop: 51828, Start Num: 10
Candidate Starts for Dialga_79:
(Start: 7 @51481 has 34 MA's), (10, 51562), (12, 51589), (17, 51682), (18, 51691),

Gene: Duffington_78 Start: 51842, Stop: 52189, Start Num: 7
Candidate Starts for Duffington_78:
(4, 51785), (Start: 7 @51842 has 34 MA's), (11, 51947), (14, 52034), (17, 52043), (18, 52052),

Gene: Eddiemania_78 Start: 51958, Stop: 52305, Start Num: 7
Candidate Starts for Eddiemania_78:
(2, 51877), (Start: 7 @51958 has 34 MA's), (10, 52039), (12, 52066), (14, 52150), (17, 52159), (18, 52168),

Gene: EndAve_79 Start: 51816, Stop: 52163, Start Num: 7
Candidate Starts for EndAve_79:
(5, 51768), (Start: 7 @51816 has 34 MA's), (10, 51897), (11, 51921), (12, 51924), (18, 52026),

Gene: Fazel_81 Start: 51842, Stop: 52171, Start Num: 7
Candidate Starts for Fazel_81:
(Start: 7 @51842 has 34 MA's), (12, 51950), (13, 52001), (16, 52040), (24, 52124), (25, 52145),

Gene: Figliar_76 Start: 51641, Stop: 51988, Start Num: 7
Candidate Starts for Figliar_76:
(4, 51584), (Start: 7 @51641 has 34 MA's), (10, 51722), (11, 51746), (12, 51749), (14, 51833), (20, 51872), (26, 51950),

Gene: Glintora_79 Start: 52065, Stop: 52364, Start Num: 9
Candidate Starts for Glintora_79:
(4, 51960), (Start: 7 @52017 has 34 MA's), (9, 52065), (11, 52122), (12, 52125), (15, 52212), (17, 52218), (20, 52248), (21, 52254), (26, 52326),

Gene: Gusicorn_79 Start: 51286, Stop: 51633, Start Num: 7
Candidate Starts for Gusicorn_79:
(Start: 7 @51286 has 34 MA's), (10, 51367), (14, 51478), (17, 51487), (18, 51496), (23, 51538),

Gene: Hydrus_77 Start: 51677, Stop: 52024, Start Num: 7
Candidate Starts for Hydrus_77:
(3, 51596), (Start: 7 @51677 has 34 MA's), (11, 51782), (12, 51785), (23, 51929),

Gene: Jodelie19_76 Start: 52808, Stop: 53155, Start Num: 7
Candidate Starts for Jodelie19_76:
(4, 52751), (Start: 7 @52808 has 34 MA's), (10, 52889), (11, 52913), (12, 52916), (14, 53000), (20, 53039), (26, 53117),

Gene: Kenosha_76 Start: 51507, Stop: 51854, Start Num: 7
Candidate Starts for Kenosha_76:
(Start: 7 @51507 has 34 MA's), (10, 51588), (12, 51615), (14, 51699), (17, 51708), (18, 51717), (23, 51759),

Gene: Luthien_78 Start: 51811, Stop: 52158, Start Num: 7
Candidate Starts for Luthien_78:
(5, 51763), (Start: 7 @51811 has 34 MA's), (10, 51892), (12, 51919), (18, 52021),

Gene: Madvan_77 Start: 50974, Stop: 51321, Start Num: 7
Candidate Starts for Madvan_77:
(Start: 7 @50974 has 34 MA's), (10, 51055), (12, 51082), (17, 51175), (18, 51184),

Gene: MajinBuu_78 Start: 52023, Stop: 52370, Start Num: 7
Candidate Starts for MajinBuu_78:
(4, 51966), (Start: 7 @52023 has 34 MA's), (10, 52104), (11, 52128), (12, 52131), (14, 52215), (20, 52254), (26, 52332),

Gene: Mossy_78 Start: 52559, Stop: 52906, Start Num: 7
Candidate Starts for Mossy_78:
(6, 52520), (Start: 7 @52559 has 34 MA's), (9, 52607), (11, 52664), (12, 52667), (23, 52811),

Gene: Mysticmoon_79 Start: 52201, Stop: 52548, Start Num: 7
Candidate Starts for Mysticmoon_79:
(Start: 7 @52201 has 34 MA's), (11, 52306), (12, 52309), (23, 52453),

Gene: Nadmeg_77 Start: 51977, Stop: 52324, Start Num: 7
Candidate Starts for Nadmeg_77:
(Start: 7 @51977 has 34 MA's), (10, 52058), (17, 52178),

Gene: Nithya_76 Start: 51360, Stop: 51707, Start Num: 7
Candidate Starts for Nithya_76:
(Start: 7 @51360 has 34 MA's), (10, 51441), (17, 51561), (18, 51570),

Gene: OhMyWard_74 Start: 52318, Stop: 52665, Start Num: 7
Candidate Starts for OhMyWard_74:
(6, 52279), (Start: 7 @52318 has 34 MA's), (9, 52366), (11, 52423), (12, 52426), (23, 52570), (26, 52627),

Gene: OlgasClover_80 Start: 52722, Stop: 53078, Start Num: 7
Candidate Starts for OlgasClover_80:
(4, 52665), (Start: 7 @52722 has 34 MA's), (11, 52827), (12, 52830), (19, 52941), (20, 52953), (22, 52968),

Gene: PestoPenguin_82 Start: 51286, Stop: 51633, Start Num: 7
Candidate Starts for PestoPenguin_82:
(Start: 7 @51286 has 34 MA's), (10, 51367), (14, 51478), (17, 51487), (18, 51496), (23, 51538),

Gene: Phepper_78 Start: 51216, Stop: 51563, Start Num: 7
Candidate Starts for Phepper_78:
(Start: 7 @51216 has 34 MA's), (10, 51297), (12, 51324), (17, 51417), (18, 51426),

Gene: Pherobrine_78 Start: 52256, Stop: 52603, Start Num: 7

Candidate Starts for Pherobrine_78:

(Start: 7 @52256 has 34 MA's), (11, 52361), (12, 52364), (23, 52508),

Gene: Rickmore_76 Start: 50323, Stop: 50679, Start Num: 7

Candidate Starts for Rickmore_76:

(1, 50200), (Start: 7 @50323 has 34 MA's), (8, 50365), (11, 50428), (12, 50431), (20, 50554), (22, 50569),

Gene: Runhaar_76 Start: 51025, Stop: 51372, Start Num: 7

Candidate Starts for Runhaar_76:

(Start: 7 @51025 has 34 MA's), (10, 51106), (12, 51133), (17, 51226), (18, 51235),

Gene: ShaggyRogers_77 Start: 51016, Stop: 51363, Start Num: 7

Candidate Starts for ShaggyRogers_77:

(Start: 7 @51016 has 34 MA's), (10, 51097), (14, 51208), (18, 51226), (23, 51268),

Gene: TenaciousP_78 Start: 52770, Stop: 53117, Start Num: 7

Candidate Starts for TenaciousP_78:

(4, 52713), (Start: 7 @52770 has 34 MA's), (10, 52851), (11, 52875), (12, 52878), (14, 52962), (20, 53001), (26, 53079),

Gene: Tonaltzin_82 Start: 51629, Stop: 51976, Start Num: 7

Candidate Starts for Tonaltzin_82:

(Start: 7 @51629 has 34 MA's), (11, 51734), (12, 51737), (20, 51860), (23, 51881), (26, 51938),

Gene: Untouchable_79 Start: 52213, Stop: 52554, Start Num: 7

Candidate Starts for Untouchable_79:

(Start: 7 @52213 has 34 MA's), (10, 52294), (12, 52321), (17, 52414), (18, 52423),

Gene: Vardy_76 Start: 50912, Stop: 51259, Start Num: 7

Candidate Starts for Vardy_76:

(Start: 7 @50912 has 34 MA's), (10, 50993), (12, 51020), (14, 51104), (18, 51122),

Gene: Zeph_79 Start: 52050, Stop: 52397, Start Num: 7

Candidate Starts for Zeph_79:

(Start: 7 @52050 has 34 MA's), (10, 52131), (12, 52158), (14, 52242), (18, 52260),