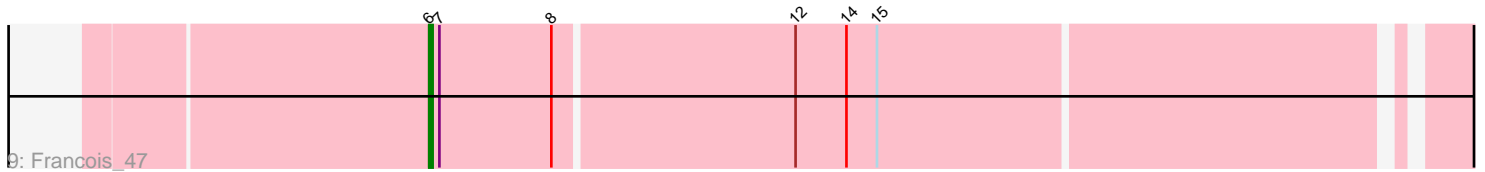
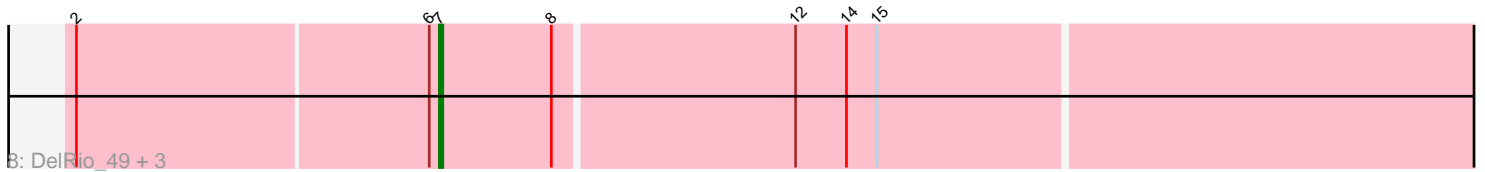
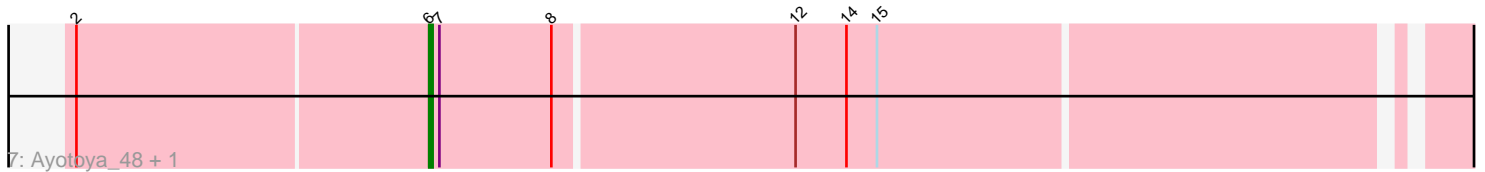
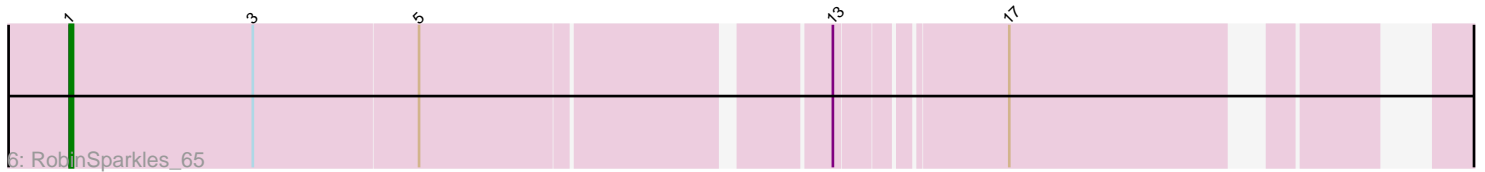
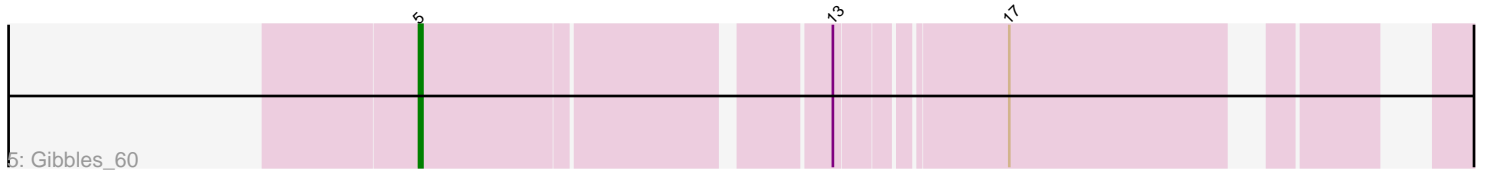
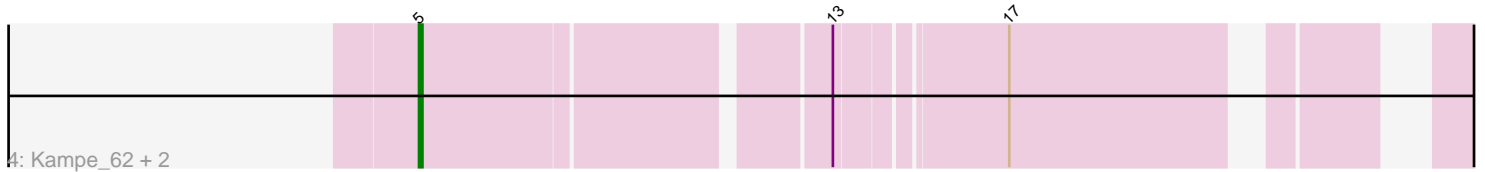
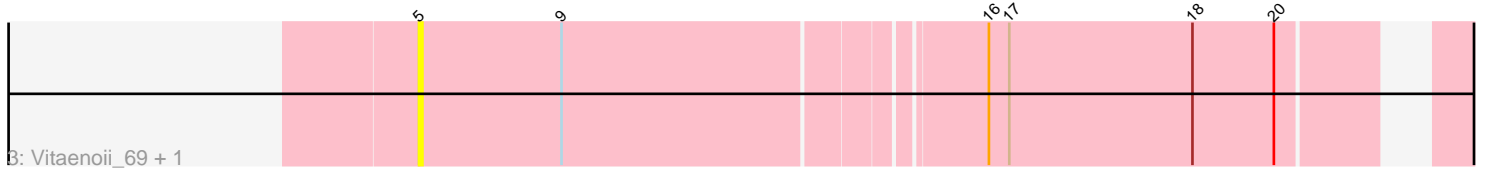
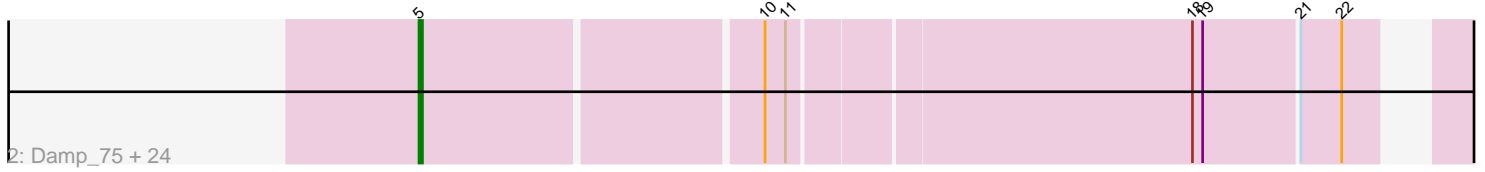
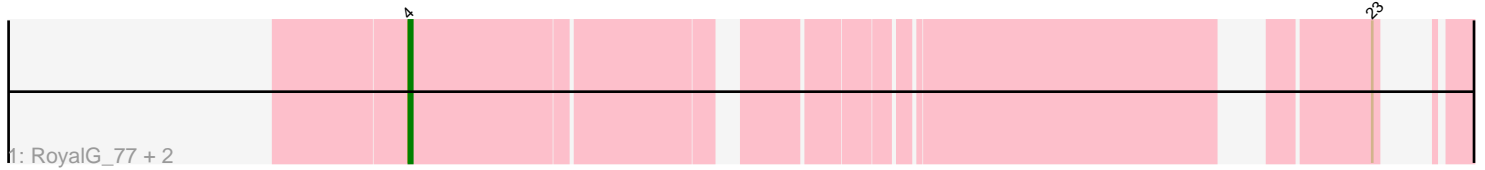


Pham 216322



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 216322 Report

This analysis was run 02/22/25 on database version 588.

Pham number 216322 has 42 members, 3 are drafts.

Phages represented in each track:

- Track 1 : RoyalG_77, Diabla_82, SteveFrench_76
- Track 2 : Damp_75, Anamika_74, Bianmat_75, GalacticEye_75, Teal_74, Berries_75, Hello_74, MrWormie_75, Kaseim_74, Harambe_74, Guillaume_74, Luker_76, Jams_75, Lahirium_74, Hail2Pitt_73, Newt_76, Charianelly_75, Woes_74, Neoevie_74, Jormungandr_74, Nimi13_74, Minos_76, Lidong_75, Sticker17_75, Shelley_75
- Track 3 : Vitaenoi_69, Philon9_69
- Track 4 : Kampe_62, PatrickStar_62, Orchid_61
- Track 5 : Gibbles_60
- Track 6 : RobinSparkles_65
- Track 7 : Ayotoya_48, Nadeem_48
- Track 8 : DelRio_49, GrandSlam_48, Chop_48, Hamood_48
- Track 9 : Francois_47

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

The start number called the most often in the published annotations is 5, it was called in 28 of the 39 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Anamika_74, Berries_75, Bianmat_75, Charianelly_75, Damp_75, GalacticEye_75, Gibbles_60, Guillaume_74, Hail2Pitt_73, Harambe_74, Hello_74, Jams_75, Jormungandr_74, Kampe_62, Kaseim_74, Lahirium_74, Lidong_75, Luker_76, Minos_76, MrWormie_75, Neoevie_74, Newt_76, Nimi13_74, Orchid_61, PatrickStar_62, Philon9_69, Shelley_75, Sticker17_75, Teal_74, Vitaenoi_69, Woes_74,

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

- RobinSparkles_65,

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

- Ayotoya_48, Chop_48, DelRio_49, Diabla_82, Francois_47, GrandSlam_48, Hamood_48, Nadeem_48, RoyalG_77, SteveFrench_76,

Summary by start number:

Start 1:

- Found in 1 of 42 (2.4%) of genes in pham
- Manual Annotations of this start: 1 of 39
- Called 100.0% of time when present
- Phage (with cluster) where this start called: RobinSparkles_65 (CX),

Start 4:

- Found in 3 of 42 (7.1%) of genes in pham
- Manual Annotations of this start: 3 of 39
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Diabla_82 (CS2), RoyalG_77 (CS2), SteveFrench_76 (CS2),

Start 5:

- Found in 32 of 42 (76.2%) of genes in pham
- Manual Annotations of this start: 28 of 39
- Called 96.9% of time when present
- Phage (with cluster) where this start called: Anamika_74 (CS3), Berries_75 (CS3), Bianmat_75 (CS3), Charianelly_75 (CS3), Damp_75 (CS3), GalacticEye_75 (CS3), Gibbles_60 (CX), Guillaume_74 (CS3), Hail2Pitt_73 (CS3), Harambe_74 (CS3), Hello_74 (CS3), Jams_75 (CS3), Jormungandr_74 (CS3), Kampe_62 (CX), Kaseim_74 (CS3), Lahirium_74 (CS3), Lidong_75 (CS3), Luker_76 (CS3), Minos_76 (CS3), MrWormie_75 (CS3), Neoevie_74 (CS3), Newt_76 (CS3), Nimi13_74 (CS3), Orchid_61 (CX), PatrickStar_62 (CX), Philon9_69 (CS4), Shelley_75 (CS3), Sticker17_75 (CS3), Teal_74 (CS3), Vitaenoi_69 (CS4), Woes_74 (CS3),

Start 6:

- Found in 7 of 42 (16.7%) of genes in pham
- Manual Annotations of this start: 3 of 39
- Called 42.9% of time when present
- Phage (with cluster) where this start called: Ayotoya_48 (DI), Francois_47 (DI), Nadeem_48 (DI),

Start 7:

- Found in 7 of 42 (16.7%) of genes in pham
- Manual Annotations of this start: 4 of 39
- Called 57.1% of time when present
- Phage (with cluster) where this start called: Chop_48 (DI), DelRio_49 (DI), GrandSlam_48 (DI), Hamood_48 (DI),

Summary by clusters:

There are 5 clusters represented in this pham: CS4, CX, DI, CS3, CS2,

Info for manual annotations of cluster CS2:

- Start number 4 was manually annotated 3 times for cluster CS2.

Info for manual annotations of cluster CS3:

- Start number 5 was manually annotated 24 times for cluster CS3.

Info for manual annotations of cluster CX:

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

Info for manual annotations of cluster DI:

- Start number 6 was manually annotated 3 times for cluster DI.
- Start number 7 was manually annotated 4 times for cluster DI.

Gene Information:

Gene: Anamika_74 Start: 60867, Stop: 60544, Start Num: 5

Candidate Starts for Anamika_74:

(Start: 5 @60867 has 28 MA's), (10, 60771), (11, 60765), (18, 60651), (19, 60648), (21, 60621), (22, 60609),

Gene: Ayotoya_48 Start: 35650, Stop: 35985, Start Num: 6

Candidate Starts for Ayotoya_48:

(2, 35548), (Start: 6 @35650 has 3 MA's), (Start: 7 @35653 has 4 MA's), (8, 35686), (12, 35755), (14, 35770), (15, 35779),

Gene: Berries_75 Start: 60839, Stop: 60516, Start Num: 5

Candidate Starts for Berries_75:

(Start: 5 @60839 has 28 MA's), (10, 60743), (11, 60737), (18, 60623), (19, 60620), (21, 60593), (22, 60581),

Gene: Bianmat_75 Start: 60879, Stop: 60556, Start Num: 5

Candidate Starts for Bianmat_75:

(Start: 5 @60879 has 28 MA's), (10, 60783), (11, 60777), (18, 60663), (19, 60660), (21, 60633), (22, 60621),

Gene: Charianelly_75 Start: 60589, Stop: 60266, Start Num: 5

Candidate Starts for Charianelly_75:

(Start: 5 @60589 has 28 MA's), (10, 60493), (11, 60487), (18, 60373), (19, 60370), (21, 60343), (22, 60331),

Gene: Chop_48 Start: 35400, Stop: 35738, Start Num: 7

Candidate Starts for Chop_48:

(2, 35295), (Start: 6 @35397 has 3 MA's), (Start: 7 @35400 has 4 MA's), (8, 35433), (12, 35502), (14, 35517), (15, 35526),

Gene: Damp_75 Start: 59753, Stop: 59430, Start Num: 5

Candidate Starts for Damp_75:

(Start: 5 @59753 has 28 MA's), (10, 59657), (11, 59651), (18, 59537), (19, 59534), (21, 59507), (22, 59495),

Gene: DelRio_49 Start: 36105, Stop: 36449, Start Num: 7

Candidate Starts for DelRio_49:

(2, 36000), (Start: 6 @36102 has 3 MA's), (Start: 7 @36105 has 4 MA's), (8, 36138), (12, 36207), (14, 36222), (15, 36231),

Gene: Diabla_82 Start: 62036, Stop: 61740, Start Num: 4

Candidate Starts for Diabla_82:
(Start: 4 @62036 has 3 MA's), (23, 61790),

Gene: Francois_47 Start: 34916, Stop: 35251, Start Num: 6
Candidate Starts for Francois_47:
(Start: 6 @34916 has 3 MA's), (Start: 7 @34919 has 4 MA's), (8, 34952), (12, 35021), (14, 35036), (15, 35045),

Gene: GalacticEye_75 Start: 60550, Stop: 60227, Start Num: 5
Candidate Starts for GalacticEye_75:
(Start: 5 @60550 has 28 MA's), (10, 60454), (11, 60448), (18, 60334), (19, 60331), (21, 60304), (22, 60292),

Gene: Gibbles_60 Start: 52361, Stop: 52059, Start Num: 5
Candidate Starts for Gibbles_60:
(Start: 5 @52361 has 28 MA's), (13, 52250), (17, 52205),

Gene: GrandSlam_48 Start: 35400, Stop: 35738, Start Num: 7
Candidate Starts for GrandSlam_48:
(2, 35295), (Start: 6 @35397 has 3 MA's), (Start: 7 @35400 has 4 MA's), (8, 35433), (12, 35502), (14, 35517), (15, 35526),

Gene: Guillaume_74 Start: 60600, Stop: 60277, Start Num: 5
Candidate Starts for Guillaume_74:
(Start: 5 @60600 has 28 MA's), (10, 60504), (11, 60498), (18, 60384), (19, 60381), (21, 60354), (22, 60342),

Gene: Hail2Pitt_73 Start: 61076, Stop: 60753, Start Num: 5
Candidate Starts for Hail2Pitt_73:
(Start: 5 @61076 has 28 MA's), (10, 60980), (11, 60974), (18, 60860), (19, 60857), (21, 60830), (22, 60818),

Gene: Hamood_48 Start: 35400, Stop: 35738, Start Num: 7
Candidate Starts for Hamood_48:
(2, 35295), (Start: 6 @35397 has 3 MA's), (Start: 7 @35400 has 4 MA's), (8, 35433), (12, 35502), (14, 35517), (15, 35526),

Gene: Harambe_74 Start: 60867, Stop: 60544, Start Num: 5
Candidate Starts for Harambe_74:
(Start: 5 @60867 has 28 MA's), (10, 60771), (11, 60765), (18, 60651), (19, 60648), (21, 60621), (22, 60609),

Gene: Hello_74 Start: 60829, Stop: 60506, Start Num: 5
Candidate Starts for Hello_74:
(Start: 5 @60829 has 28 MA's), (10, 60733), (11, 60727), (18, 60613), (19, 60610), (21, 60583), (22, 60571),

Gene: Jams_75 Start: 60039, Stop: 59716, Start Num: 5
Candidate Starts for Jams_75:
(Start: 5 @60039 has 28 MA's), (10, 59943), (11, 59937), (18, 59823), (19, 59820), (21, 59793), (22, 59781),

Gene: Jormungandr_74 Start: 60582, Stop: 60259, Start Num: 5

Candidate Starts for Jormungandr_74:

(Start: 5 @60582 has 28 MA's), (10, 60486), (11, 60480), (18, 60366), (19, 60363), (21, 60336), (22, 60324),

Gene: Kampe_62 Start: 52344, Stop: 52042, Start Num: 5

Candidate Starts for Kampe_62:

(Start: 5 @52344 has 28 MA's), (13, 52233), (17, 52188),

Gene: Kaseim_74 Start: 60024, Stop: 59701, Start Num: 5

Candidate Starts for Kaseim_74:

(Start: 5 @60024 has 28 MA's), (10, 59928), (11, 59922), (18, 59808), (19, 59805), (21, 59778), (22, 59766),

Gene: Lahirium_74 Start: 61104, Stop: 60781, Start Num: 5

Candidate Starts for Lahirium_74:

(Start: 5 @61104 has 28 MA's), (10, 61008), (11, 61002), (18, 60888), (19, 60885), (21, 60858), (22, 60846),

Gene: Lidong_75 Start: 60839, Stop: 60516, Start Num: 5

Candidate Starts for Lidong_75:

(Start: 5 @60839 has 28 MA's), (10, 60743), (11, 60737), (18, 60623), (19, 60620), (21, 60593), (22, 60581),

Gene: Luker_76 Start: 61057, Stop: 60734, Start Num: 5

Candidate Starts for Luker_76:

(Start: 5 @61057 has 28 MA's), (10, 60961), (11, 60955), (18, 60841), (19, 60838), (21, 60811), (22, 60799),

Gene: Minos_76 Start: 60581, Stop: 60258, Start Num: 5

Candidate Starts for Minos_76:

(Start: 5 @60581 has 28 MA's), (10, 60485), (11, 60479), (18, 60365), (19, 60362), (21, 60335), (22, 60323),

Gene: MrWormie_75 Start: 59742, Stop: 59419, Start Num: 5

Candidate Starts for MrWormie_75:

(Start: 5 @59742 has 28 MA's), (10, 59646), (11, 59640), (18, 59526), (19, 59523), (21, 59496), (22, 59484),

Gene: Nadeem_48 Start: 34920, Stop: 35255, Start Num: 6

Candidate Starts for Nadeem_48:

(2, 34818), (Start: 6 @34920 has 3 MA's), (Start: 7 @34923 has 4 MA's), (8, 34956), (12, 35025), (14, 35040), (15, 35049),

Gene: Neoevie_74 Start: 60843, Stop: 60520, Start Num: 5

Candidate Starts for Neoevie_74:

(Start: 5 @60843 has 28 MA's), (10, 60747), (11, 60741), (18, 60627), (19, 60624), (21, 60597), (22, 60585),

Gene: Newt_76 Start: 61071, Stop: 60748, Start Num: 5

Candidate Starts for Newt_76:

(Start: 5 @61071 has 28 MA's), (10, 60975), (11, 60969), (18, 60855), (19, 60852), (21, 60825), (22, 60813),

Gene: Nimi13_74 Start: 60590, Stop: 60267, Start Num: 5
Candidate Starts for Nimi13_74:
(Start: 5 @60590 has 28 MA's), (10, 60494), (11, 60488), (18, 60374), (19, 60371), (21, 60344), (22, 60332),

Gene: Orchid_61 Start: 52345, Stop: 52043, Start Num: 5
Candidate Starts for Orchid_61:
(Start: 5 @52345 has 28 MA's), (13, 52234), (17, 52189),

Gene: PatrickStar_62 Start: 52344, Stop: 52042, Start Num: 5
Candidate Starts for PatrickStar_62:
(Start: 5 @52344 has 28 MA's), (13, 52233), (17, 52188),

Gene: Philon9_69 Start: 61064, Stop: 60738, Start Num: 5
Candidate Starts for Philon9_69:
(Start: 5 @61064 has 28 MA's), (9, 61022), (16, 60905), (17, 60899), (18, 60845), (20, 60821),

Gene: RobinSparkles_65 Start: 52999, Stop: 52595, Start Num: 1
Candidate Starts for RobinSparkles_65:
(Start: 1 @52999 has 1 MA's), (3, 52945), (Start: 5 @52897 has 28 MA's), (13, 52786), (17, 52741),

Gene: RoyalG_77 Start: 60476, Stop: 60180, Start Num: 4
Candidate Starts for RoyalG_77:
(Start: 4 @60476 has 3 MA's), (23, 60230),

Gene: Shelley_75 Start: 60066, Stop: 59743, Start Num: 5
Candidate Starts for Shelley_75:
(Start: 5 @60066 has 28 MA's), (10, 59970), (11, 59964), (18, 59850), (19, 59847), (21, 59820), (22, 59808),

Gene: SteveFrench_76 Start: 60716, Stop: 60420, Start Num: 4
Candidate Starts for SteveFrench_76:
(Start: 4 @60716 has 3 MA's), (23, 60470),

Gene: Sticker17_75 Start: 60554, Stop: 60231, Start Num: 5
Candidate Starts for Sticker17_75:
(Start: 5 @60554 has 28 MA's), (10, 60458), (11, 60452), (18, 60338), (19, 60335), (21, 60308), (22, 60296),

Gene: Teal_74 Start: 61048, Stop: 60725, Start Num: 5
Candidate Starts for Teal_74:
(Start: 5 @61048 has 28 MA's), (10, 60952), (11, 60946), (18, 60832), (19, 60829), (21, 60802), (22, 60790),

Gene: Vitaenoi_69 Start: 61048, Stop: 60722, Start Num: 5
Candidate Starts for Vitaenoi_69:
(Start: 5 @61048 has 28 MA's), (9, 61006), (16, 60889), (17, 60883), (18, 60829), (20, 60805),

Gene: Woes_74 Start: 61099, Stop: 60776, Start Num: 5
Candidate Starts for Woes_74:
(Start: 5 @61099 has 28 MA's), (10, 61003), (11, 60997), (18, 60883), (19, 60880), (21, 60853), (22, 60841),