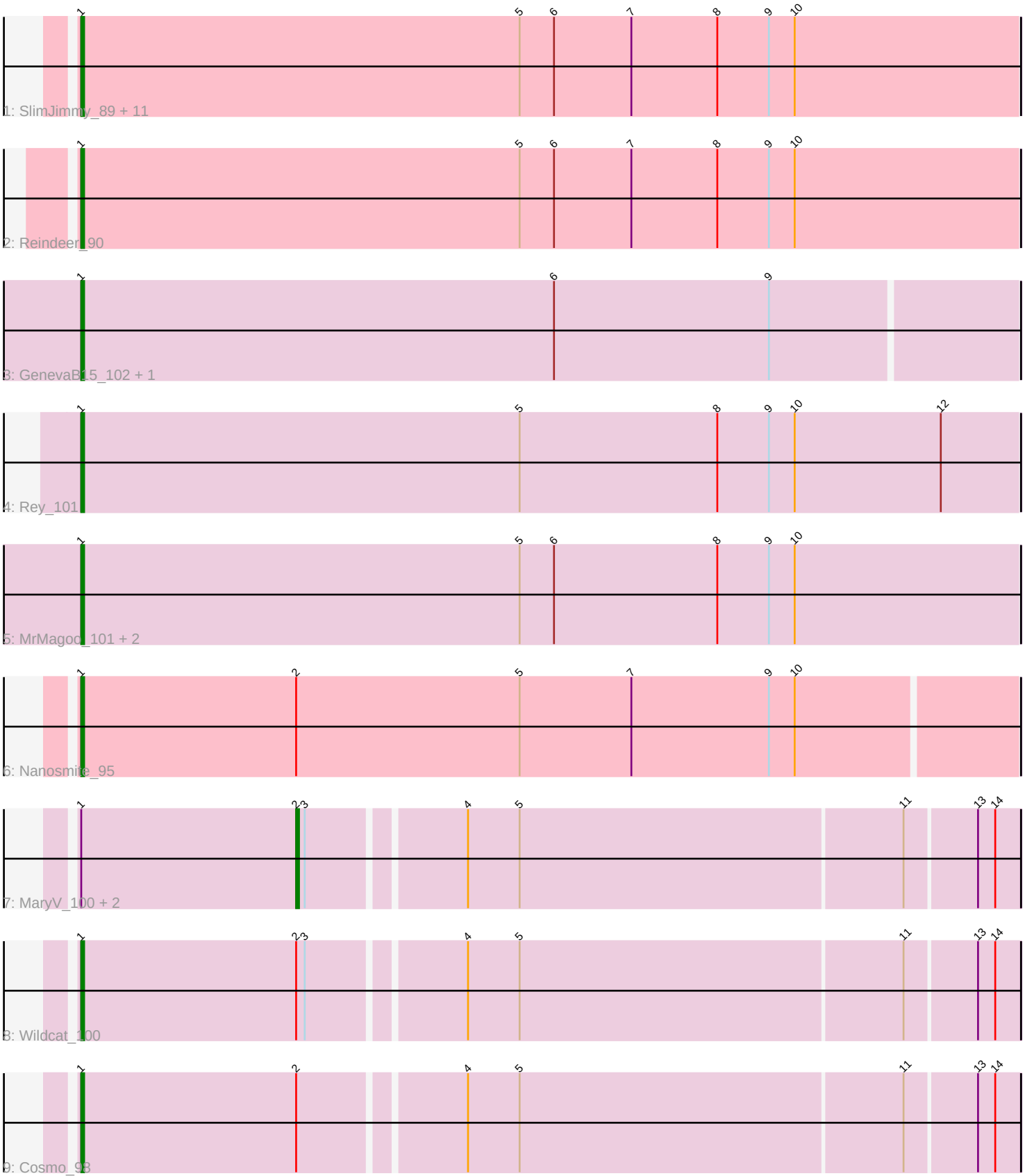
# Pham 194288


1
5
6
7
8
9
10
1: SlimJimmy_89 + 11
1
5
6
7
8
9
10
2: Reindeer_90
1
6
9
3: GenevaB15_102 + 1
1
5
8
9
10
12
4: Rey_101
1
5
6
8
9
10
5: MrMagoo_101 + 2
1
2
5
7
9
10
6: Nanosmite_95
1
2
3
4
5
11
13
14
7: MaryV_100 + 2
1
2
3
4
5
11
13
14
8: Wildcat_100
1
2
4
5
11
13
14
9: Cosmo_93

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 194288 Report

This analysis was run 11/02/24 on database version 579.

Pham number 194288 has 25 members, 0 are drafts.

Phages represented in each track:
• Track 1 : SlimJimmy_89, PegLeg_88, Glaske16_91, LilhomieP_89, Diminimus_91, IPhane7_88, Bongo_89, TyDawg_89, Bricole_88, Skinny_93, Auspice_90, Dulcita_91
• Track 2 : Reindeer_90
• Track 3 : GenevaB15_102, Aziz_100
• Track 4 : Rey_101
• Track 5 : MrMagoo_101, Estes_100, GardenSalsa_100
• Track 6 : Nanosmite_95
• Track 7 : MaryV_100, EniyanLRS_95, Azrael100_97
• Track 8 : Wildcat_100
• Track 9 : Cosmo_98

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

The start number called the most often in the published annotations is 1, it was called in 22 of the 25 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Auspice_90, Aziz_100, Bongo_89, Bricole_88, Cosmo_98, Diminimus_91, Dulcita_91, Estes_100, GardenSalsa_100, GenevaB15_102, Glaske16_91, IPhane7_88, LilhomieP_89, MrMagoo_101, Nanosmite_95, PegLeg_88, Reindeer_90, Rey_101, Skinny_93, SlimJimmy_89, TyDawg_89, Wildcat_100,

Genes that have the "Most Annotated" start but do not call it:
• Azrael100_97, EniyanLRS_95, MaryV_100,

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

**Summary by start number:**

Start 1:
• Found in 25 of 25 ( 100.0% ) of genes in pham
• Manual Annotations of this start: 22 of 25
• Called 88.0% of time when present

• Phage (with cluster) where this start called: Auspice_90 (M1), Aziz_100 (M2), Bongo_89 (M1), Bricole_88 (M1), Cosmo_98 (V), Diminimus_91 (M1), Dulcita_91 (M1), Estes_100 (M2), GardenSalsa_100 (M2), GenevaB15_102 (M2), Glaske16_91 (M1), IPhane7_88 (M1), LilhomieP_89 (M1), MrMagoo_101 (M2), Nanosmite_95 (M3), PegLeg_88 (M1), Reindeer_90 (M1), Rey_101 (M2), Skinny_93 (M1), SlimJimmy_89 (M1), TyDawg_89 (M1), Wildcat_100 (V),

Start 2:
• Found in 6 of 25 ( 24.0% ) of genes in pham
• Manual Annotations of this start: 3 of 25
• Called 50.0% of time when present
• Phage (with cluster) where this start called: Azrael100_97 (V), EniyanLRS_95 (V), MaryV_100 (V),

**Summary by clusters:**

There are 4 clusters represented in this pham: V, M1, M3, M2,

Info for manual annotations of cluster M1:
•Start number 1 was manually annotated 13 times for cluster M1.

Info for manual annotations of cluster M2:
•Start number 1 was manually annotated 6 times for cluster M2.

Info for manual annotations of cluster M3:
•Start number 1 was manually annotated 1 time for cluster M3.

Info for manual annotations of cluster V:
•Start number 1 was manually annotated 2 times for cluster V.
•Start number 2 was manually annotated 3 times for cluster V.

***Gene Information:***

Gene: Auspice_90 Start: 53928, Stop: 54254, Start Num: 1
Candidate Starts for Auspice_90:
(Start: 1 @53928 has 22 MA's), (5, 54081), (6, 54093), (7, 54120), (8, 54150), (9, 54168), (10, 54177),

Gene: Aziz_100 Start: 55956, Stop: 56279, Start Num: 1
Candidate Starts for Aziz_100:
(Start: 1 @55956 has 22 MA's), (6, 56121), (9, 56196),

Gene: Azrael100_97 Start: 57788, Stop: 58030, Start Num: 2
Candidate Starts for Azrael100_97:
(Start: 1 @57713 has 22 MA's), (Start: 2 @57788 has 3 MA's), (3, 57791), (4, 57842), (5, 57860), (11, 57992), (13, 58016), (14, 58022),

Gene: Bongo_89 Start: 53932, Stop: 54258, Start Num: 1
Candidate Starts for Bongo_89:
(Start: 1 @53932 has 22 MA's), (5, 54085), (6, 54097), (7, 54124), (8, 54154), (9, 54172), (10, 54181),

Gene: Bricole_88 Start: 53696, Stop: 54022, Start Num: 1

Candidate Starts for Bricole_88:
(Start: 1 @53696 has 22 MA's), (5, 53849), (6, 53861), (7, 53888), (8, 53918), (9, 53936), (10, 53945),

Gene: Cosmo_98 Start: 57711, Stop: 58028, Start Num: 1
Candidate Starts for Cosmo_98:
(Start: 1 @57711 has 22 MA's), (Start: 2 @57786 has 3 MA's), (4, 57840), (5, 57858), (11, 57990), (13, 58014), (14, 58020),

Gene: Diminimus_91 Start: 53927, Stop: 54253, Start Num: 1
Candidate Starts for Diminimus_91:
(Start: 1 @53927 has 22 MA's), (5, 54080), (6, 54092), (7, 54119), (8, 54149), (9, 54167), (10, 54176),

Gene: Dulcita_91 Start: 53928, Stop: 54254, Start Num: 1
Candidate Starts for Dulcita_91:
(Start: 1 @53928 has 22 MA's), (5, 54081), (6, 54093), (7, 54120), (8, 54150), (9, 54168), (10, 54177),

Gene: EniyanLRS_95 Start: 57783, Stop: 58025, Start Num: 2
Candidate Starts for EniyanLRS_95:
(Start: 1 @57708 has 22 MA's), (Start: 2 @57783 has 3 MA's), (3, 57786), (4, 57837), (5, 57855), (11, 57987), (13, 58011), (14, 58017),

Gene: Estes_100 Start: 55935, Stop: 56261, Start Num: 1
Candidate Starts for Estes_100:
(Start: 1 @55935 has 22 MA's), (5, 56088), (6, 56100), (8, 56157), (9, 56175), (10, 56184),

Gene: GardenSalsa_100 Start: 56014, Stop: 56340, Start Num: 1
Candidate Starts for GardenSalsa_100:
(Start: 1 @56014 has 22 MA's), (5, 56167), (6, 56179), (8, 56236), (9, 56254), (10, 56263),

Gene: GenevaB15_102 Start: 55956, Stop: 56279, Start Num: 1
Candidate Starts for GenevaB15_102:
(Start: 1 @55956 has 22 MA's), (6, 56121), (9, 56196),

Gene: Glaske16_91 Start: 54100, Stop: 54426, Start Num: 1
Candidate Starts for Glaske16_91:
(Start: 1 @54100 has 22 MA's), (5, 54253), (6, 54265), (7, 54292), (8, 54322), (9, 54340), (10, 54349),

Gene: IPhane7_88 Start: 53932, Stop: 54258, Start Num: 1
Candidate Starts for IPhane7_88:
(Start: 1 @53932 has 22 MA's), (5, 54085), (6, 54097), (7, 54124), (8, 54154), (9, 54172), (10, 54181),

Gene: LilhomieP_89 Start: 54411, Stop: 54737, Start Num: 1
Candidate Starts for LilhomieP_89:
(Start: 1 @54411 has 22 MA's), (5, 54564), (6, 54576), (7, 54603), (8, 54633), (9, 54651), (10, 54660),

Gene: MaryV_100 Start: 58194, Stop: 58436, Start Num: 2
Candidate Starts for MaryV_100:
(Start: 1 @58119 has 22 MA's), (Start: 2 @58194 has 3 MA's), (3, 58197), (4, 58248), (5, 58266), (11, 58398), (13, 58422), (14, 58428),

Gene: MrMagoo_101 Start: 56014, Stop: 56340, Start Num: 1
Candidate Starts for MrMagoo_101:
(Start: 1 @56014 has 22 MA's), (5, 56167), (6, 56179), (8, 56236), (9, 56254), (10, 56263),

Gene: Nanosmite_95 Start: 55538, Stop: 55861, Start Num: 1
Candidate Starts for Nanosmite_95:
(Start: 1 @55538 has 22 MA's), (Start: 2 @55613 has 3 MA's), (5, 55691), (7, 55730), (9, 55778), (10, 55787),

Gene: PegLeg_88 Start: 53672, Stop: 53998, Start Num: 1
Candidate Starts for PegLeg_88:
(Start: 1 @53672 has 22 MA's), (5, 53825), (6, 53837), (7, 53864), (8, 53894), (9, 53912), (10, 53921),

Gene: Reindeer_90 Start: 55191, Stop: 55517, Start Num: 1
Candidate Starts for Reindeer_90:
(Start: 1 @55191 has 22 MA's), (5, 55344), (6, 55356), (7, 55383), (8, 55413), (9, 55431), (10, 55440),

Gene: Rey_101 Start: 55933, Stop: 56259, Start Num: 1
Candidate Starts for Rey_101:
(Start: 1 @55933 has 22 MA's), (5, 56086), (8, 56155), (9, 56173), (10, 56182), (12, 56233),

Gene: Skinny_93 Start: 54840, Stop: 55166, Start Num: 1
Candidate Starts for Skinny_93:
(Start: 1 @54840 has 22 MA's), (5, 54993), (6, 55005), (7, 55032), (8, 55062), (9, 55080), (10, 55089),

Gene: SlimJimmy_89 Start: 54828, Stop: 55154, Start Num: 1
Candidate Starts for SlimJimmy_89:
(Start: 1 @54828 has 22 MA's), (5, 54981), (6, 54993), (7, 55020), (8, 55050), (9, 55068), (10, 55077),

Gene: TyDawg_89 Start: 53935, Stop: 54261, Start Num: 1
Candidate Starts for TyDawg_89:
(Start: 1 @53935 has 22 MA's), (5, 54088), (6, 54100), (7, 54127), (8, 54157), (9, 54175), (10, 54184),

Gene: Wildcat_100 Start: 58129, Stop: 58446, Start Num: 1
Candidate Starts for Wildcat_100:
(Start: 1 @58129 has 22 MA's), (Start: 2 @58204 has 3 MA's), (3, 58207), (4, 58258), (5, 58276), (11, 58408), (13, 58432), (14, 58438),