

DPCC Data Standard Reference for Protein Reagent v1.2

	Project_Identifier	Contributing_Institution	Reagent_Name	Sample_Identifier
Input Type	Text Field	Text Field	Text Field	Text Field
Definition	A unique Project Identifier generated by the DPCC by combining the Center-generated Project Code and a random 4-digit number	The institution code for the group that CREATED THE REAGENT. Must be one of the CEIRS institution codes assigned by NIAID.	Name of the reagent assigned by the investigator	Identifier assigned to the virus used to create the reagent
Format	Project_Code_XXXX Maximum length: 21 characters	Center three-letter code followed by three digits. Maximum length: 6 characters	Text Maximum length: 150 characters	Center-specific Allowed characters include alphanumeric, hyphen, and underscore: a-z, A-Z, 0-9, -, _ Maximum length: 50 characters
Value List	None	None	None	Text NA
Curation	The entry must be a Project Identifier value registered with the DPCC.	The entry must be an Institution Code value registered with the DPCC. Center 3-letter codes are case-sensitive and must be entered in all-caps.	None	It should match with the Sample_Identifier provided in related data submissions.
Examples	SJCProj02_4001	SJC101	VN1203 H5 protein	21145-001a
Notes				Enter NA if the reagent is not related to a surveillance submission.
Dependent Fields				
Validation	Project_Identifier should be a valid project identifier.	Must be an Institution Code value registered with the DPCC	Validate field length	Validate field length
Message Code	Error_9_PROJECT_NOT_FOUND	Error_1_INVALID_VALUE	Error_70_INVALID_FIELD_LENGTH	Error_70_INVALID_FIELD_LENGTH
Validation	Project_Identifier exists but user does not have permission to access or edit the project.			
Message Code	Error_4_DENIED_USER_ACCESS			
Validation				
Message Code				
Validation				
Message Code				
Validation				
Message Code				
Validation				
Message Code				
Validation				
Message Code				
Validation				
Message Code				

Strain Name	
Input Type	Text Field
Definition	The WHO or ICTV strain name of the virus that was used to create the reagent
Format	<p>Influenza A virus: Antigenic Type/Host of Origin/Geographical Origin/Strain Number/Year of Isolation (Subtype), or rg-Antigenic Type/Host of Origin/Geographical Origin/Strain Number/Year of Isolation [rg details] (Subtype)</p> <p>Influenza B, C, or D virus: Antigenic Type/Host of Origin/Geographical Origin/Strain Number/Year of Isolation, or rg-Antigenic Type/Host of Origin/Geographical Origin/Strain Number/Year of Isolation [rg details]</p> <p>SARS-CoV-2 and other viruses: Virus Name/Host of Origin/Geographical Origin/Strain Number/Year of Isolation, or rg-Virus Name/Host of Origin/Geographical Origin/Strain Number/Year of Isolation [rg details]</p> <p>Maximum length: 150 characters</p>
Value List	Text U NA
Curation	<p>For influenza viruses, strain names most follow WHO naming convention: Fields must be ordered as follows and separated with the '/' character:</p> <ol style="list-style-type: none"> 1. The antigenic type (e.g., A, B, C, D) 2. The host of origin (e.g., swine, equine, chicken. For human-origin viruses, no host of origin designation is given.) 3. Geographical origin (e.g., Denver, Taiwan) 4. Strain number (e.g., 15, 7) 5. Year of isolation (e.g., 2009, 1934) 6. For influenza A viruses, the hemagglutinin and neuraminidase antigen description in parentheses (e.g., (H1N1), (H3N2)) <p>For SARS-CoV-2 viruses, strain names most follow ICTV naming convention: Fields must be ordered as follows and separated with the '/' character:</p> <ol style="list-style-type: none"> 1. Virus name (e.g., SARS-CoV-2) 2. The host of origin (e.g., human. Human-origin viruses must include the origin designation.) 3. Country of geographical origin as a three-letter code from the DPCC's Country Codes list (e.g., USA, MEX, CAN) 4. Strain number (e.g., 15, 7) 5. Year of isolation (e.g., 2019, 2020) <p>For all other viruses, please use the following convention: Fields must be ordered as follows and separated with the '/' character:</p> <ol style="list-style-type: none"> 1. Virus name (e.g., MERS-CoV, Bat-CoV, etc.) 2. The host of origin (e.g., human, bat, camel. Human-origin viruses must include the origin designation.) 3. Geographical origin, either regional locality or country (e.g., Denver, Taiwan) 4. Strain number (e.g., 15, 7) 5. Year of isolation (e.g., 2019, 2020) <p>If the strain is a reverse genetic virus, prefix Strain_Name with rg-. Provide reverse genetic details in brackets after the year of isolation and before the subtype.</p>
Examples	<p>For influenza:</p> <p>A/Hong Kong/1/1968 (H3N2), A/chicken/Fujian/4/2002 (H3N6), A/chicken/Fujian/4/2002 (HxNx), A/chicken/Fujian/4/2002 (mixed), A/swine/Iowa/233-56/2011 (H3N2), A/duck/Alberta/35/1976 (H1N1), B/Hong Kong/432/2014, C/Texas/19876/2011, D/swine/Oklahoma/1334/2011, rg-A/Puerto Rico/8/1934 (H1N1), or rg-A/Egypt/N03072/2010 [PR8 internal R 6+2] (H5N1)</p> <p>For SARS-CoV-2: SARS-CoV-2/human/USA/NY-PV08486/2020</p> <p>For other viruses: PHEV-CoV/swine/USA/15TOSU25049/2015</p>
Notes	<p>WHO Reference for influenza viruses: http://www.cdc.gov/flu/about/viruses/types.htm ICTV Reference for SARS-CoV-2 viruses: https://pubmed.ncbi.nlm.nih.gov/32123347</p> <p>(HxNx) can be used in cases where a partial subtype has been determined (e.g., H5Nx, HxN2).</p> <p>If there are mixed subtypes contained within a sample use A/chicken/Fujian/4/2002 (mixed) for Strain_Name and enter additional subtype information in the Comments field.</p>
Dependent Fields	Infected, Days_Post_Infection
Validation	Validate field length
Message Code	Error_70_INVALID_FIELD_LENGTH
Validation	Host of origin element of strain name must be alphanumeric, underscore, dash, period, or single quote: a-z, A-Z, 0-9, _, -, ., ' , ,'
Message Code	Error_137_INVALID_HOST_SPECIES_STRAIN_TEXT
Validation	Geographical origin element of strain name must be alphanumeric, underscore, dash, period, or single quote: a-z, A-Z, 0-9, _, -, ., ' , ,'
Message Code	Error_138_INVALID_LOCATION_STRAIN_TEXT
Validation	Strain number element of strain name must be alphanumeric, underscore, dash, or period: a-z, A-Z, 0-9, _, -, .
Message Code	Error_139_INVALID_STRAIN_NUMBER_STRAIN_TEXT
Validation	Year of isolation element of strain name must be 4-digit year.
Message Code	Error_110_INVALID_STRAIN_YEAR
Validation	If strain is influenza A, subtype must be present as text between parentheses.
Message Code	Error_112_INVALID_STRAIN_SUBTYPE
Validation	Brackets cannot be present if strain does not have rg- prefix.
Message Code	Error_119_INVALID_STRAIN_BRACKETS
Validation	If included, the strain must have a matched pair of opening and closing brackets or parentheses.
Message Code	Error_158_INVALID_STRAIN_OPEN_BRACKETS
Validation	The strain must have four or five elements separated by a slash '/' character.
Message Code	Error_159_INVALID_NUMBER_OF_STRAIN_ELEMENTS

	Contact_Email	Availability	Publication_PMID	Comments
Input Type	Text Field	Text Field	Text Field	Text Field
Definition	Email address for the point-of-contact	Whether the reagent is available to share with other investigators on the reagents page of the CEIRS Public Website	The PubMed Unique Identifier (PMID) for the publication in which the reagent was published.	Text describing anything else of interest related to the submission
Format	Text@domain.com Maximum length: 50 characters	Text Maximum length: 1 character	PMID Maximum length: 50 characters	Text Maximum length: 2000 characters
Value List	None	Y N	Text NA	Text NA
Curation	The entry must be a valid email address.	The entry must be one and only one member of the Value List.	The entry must be a valid PMID number: 7 or 8-digit number with no leading zeros. http://www.nlm.nih.gov/bsd/mms/medlineelements.html#pmid	None
Examples	jsmith@email.edu	Y	19465683, or NA	NA
Notes		Y = Yes N = No	If the reagent was referenced in multiple publications, comma-separate the individual PMIDs. Enter NA if the reagent was not referenced in a publication.	If there are no comments, enter NA.
Dependent Fields				
Validation	Validate field length	Field value should be one of valid values as in list.	Validate field length	Validate field length
Message Code	Error_70_INVALID_FIELD_LENGTH	Error_1_INVALID_VALUE	Error_70_INVALID_FIELD_LENGTH	Error_70_INVALID_FIELD_LENGTH
Validation	Must be a valid email address.		Must be a valid PMID.	
Message Code	Error_114_INVALID_EMAIL		Error_96_INVALID_PMID	
Validation				
Message Code				
Validation				
Message Code				
Validation				
Message Code				
Validation				
Message Code				
Validation				
Message Code				
Validation				
Message Code				
Validation				
Message Code				